rCT/GB2003/004485

FIGURE 1

Table 1 Coordinate data on the BRC4-RAD51 complex.

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ATOM	1	CB	GLU	A 98	54.122	26.467	6.057	1.00 41.21	Α
ATOM	2	CG	GLU	A 98	55.636	26.317	6.015	1.00 45.64	Α
								1.00 47.43	A
ATOM	. 3	· CD	GLU		56.085		5.027		
ATOM	4	OE I	GLU		55.620	24.103	5.147	1.00 49.28	A
ATOM	5	OE 2	GLU	A 98	56.901	25.572	4.134	1.00 49.29	Α
ATOM		C	GLU		51.999		4.744	1.00 34.53	А
	6								
ATOM	7	0	GLU	A 98	51.235	27.538	5.157	1.00 34.61	Α
ATOM	8	N	GLU	A 98	53.866	28.288	4.399	1.00 38.15	Α
	9	CA	GLU		53.509		4.717		A
ATOM									
ATOM	10	N	ILE	A 99	51.587	25.484	4.306	1.00 30.62	· А
ATOM	11	CA	ILE	A 99	50.181	25.125	4.226	1.00 26.62	. A
ATOM	12	СВ	ILE		49.982		3.143	1.00 28.34	A
ATOM	13	CG2	ILE	A 99	48.540		3.115	1.00 29.76	A
ATOM	14	CG1	ILE	A 99	50.421	24.613	1.790	1.00 29.12	A
ATOM	15	CDI	ILE	A 99	50.399	23.600	. 678	1.00 33.00	A
							5.516	1.00 22.96	
ATOM	16	С	ILE		49.542				A
ATOM	17	0	ILE	A 99	50.152	23.893	6.292	1.00 22.20	A
ATOM	18	N	ILE	A 100	48.299	25.039	5.728	1.00 19.56	Α
	19	CA	ILE		47.524	24.619	6.885	1.00 16.84	A
ATOM									
ATOM	20	CB	ILE	A 100	46.967	25.825	7.679	1.00 16.90	A
ATOM	21	CG2	ILE	A 100	45.957	25.344	8.714	1.00 18.72	Α
ATOM	22	CG1	ILE	A 100	48.113	26.580	8.358	1.00 19.95	A
ATOM	23	CDI	ILE	A 100	. 47. 669	27.845	9.089	1.00 22.55	A
ATOM	24	С	·ILE	A 100	46.356	23.824	6.315	1.00 15.59	Α
ATOM	25	0	TLE	A 100	45.805	24.185	5.275	1.00 14.24	Α
ATOM	26	N		A 101	45.999	22.731	6.978	1.00 13.53	A
ATOM	27	CA	GLN	A 101	44.887	21.907	6.523	1.00 15.11	Α
ATOM	28	CB	GLN	A 101	45.348	20.464	6.330	1.00 19.35	Α
ATOM	29	CG		A 101	46.592	20.374	5.458	1.00 26.50	A
ATOM	30	CD	GLN .	A 101	46.427	19.451	4.273	1.00 31.87	A
ATOM	31	OE1	GLN .	A 101	45.487	19.588	3.488	1.00 35.05	. A
ATOM	32	NF2	GLN .	101	47.350	18.507	4.129	1.00 33.92	A
ATOM	33	С		A 101	43.786	21.993	7.564	1.00 13.47	A
ATOM	34	0	GLN .	A 101	43.959	21.568	8.706	1.00 15.75	A
ATOM	35	N	ILE	A 102	42.654	22.557	7.161	1.00 10.05	A
ATOM	36	CA		A 102	41.520	22.748	8.060	1.00 8.05	A
ATOM	37	СВ	ILE A	A 102	40.706	23.983	7.633	1.00 8.89	A
ATOM	38	CG2	ILE A	A 102	39.544	24.206	8.599	1.00 8.83	Α
ATOM	39		ILE A		41.620	25.215	7.602	1.00 11.08	A
ATOM	40	CDI	ILE A	A 102	41.023	26.415	6.880	1.00 9.86	A
ATOM	41	С	ILE A	A 102	40.604	21.531	8.085	1.00 8.43	Α
MOTA	42	0	TLE	A 102	40.166	21.054	7.042	1.00 8.83	A
								•	
ATOM	43	N		A 103	40.309	21.036	9.282	1.00 8.44	A
ATOM	44	CA	THR A	A 103	39.446	19.868	9.411	1.00 9.31	A
ATOM	45	СВ	THR A	A 103	39.386	19.368	10.872	1.00 10.02	A
ATOM	46		THR A		38.605	18.164	10.929	1.00 11.79	
									A
ATOM	47	CG2	THR A		38.755	20.417	11.776	1.00 11.70	A
ATOM	48	С	THR A	A 103	38.020	20.116	8.923	1.00 9.93	A
ATOM	49	0		103	37.449	21.186	9.141	1.00 8.54	A
ATOM	50	N	THR A		37.456	19.110	8.259	1.00 10.38	A
ATOM	51	CA	THR !	A 104	36.091	19.174	7.737	1.00 11.01	A
ATOM	52	CB.	THR A	104	35.912	18.256	6.510	1.00 11.26	A
ATOM	53		THR A		36.128	16.896	6.914	1.00 14.11	A
ATOM	54	CG2	THR A		36.892	18.613	5.415	1.00 12.62	A
ATOM	55	С	THR A	104	35.090	18.688	8.784	1.00 11.39	A
ATOM	56	Ō	THR A		33.878	18.830	8.604	1.00 12.53	
									A
ATOM	57	N	GLY A		35.598	18.109	9.868	1.00 10.65	A
ATOM	58	CA .	GLY A	105	34.724	17.582	10.901	1.00 11.97	Α
ATOM	59	c ·	GLY F		34.619	16.071	10.780	1.00 13.09	A
ATOM	60	0	GLY F		34.156	15.390	11.699	1.00 13.32	A
ATOM	61	N	SER A	106	35.052	15.550	9.634	1.00 12.40	A
ATOM	62	CA	SER A	106	35.033	14.115	9.363	1.00 14.20	А
ATOM	63	СВ							
VION	03	СÐ	SER A	. 100	. 34.242	13.835	8.079	1.00 14.61	A

ATOM	64 OG SER A 106	34.505 12.528 7.589 1.00	14.19 A
ATOM	65 C SER A 106		
ATOM	66 O SER A 106		13.00 A
MOTA	67 N LYS A 107	36.788 12.553 10.017 1.00	15.63 A
ATOM	68 CA LYS A 107	38.117 11.946 9.951 1.00	
ATOM	69 CB LYS A 107		
		38.279 10.867 11.026 1.00	
ATOM	70 CG LYS A 107	38.184 11.361 12.456 1.00	26.56 A
ATOM	71 CD LYS A 107	38.430 10.209 13.417 1.00	
ATOM	72 CE LYS A 107		
	•		
ATOM	73 NZ LYS A 107	38.599 9.505 15.791 1.00	37.82 A
ATOM	74 C LYS A 107	38.359 11.310 8.587 1.00	16.91 A
ATOM	75 O LYS A 107		
ATOM	76 N GLU A 108	37.345 10.623 8.068 1.00	16.08 A
MOTA	77 CA GLU A 108	37.464 9.970 6.770 1.00	16.56 A
ATOM	·78 CB GLU A 108	36.252 9.072 6.508 1.00	
ATOM	79 CG GLU A 108		
		36.214 7.829 7.379 1.00 2	24.11 A
ATOM	80 CD GLU A 108	37.473 6.991 7.241 1.00 2	29.12 A
ATOM	81 OE1 GLU A 108	37.798 6.583 6.104 1.00 3	
ATOM	82 OE2 GLU A 108		
ATOM .	83 C GLU A 108	37.611 10.973 5.641 1.00 1	l4.32 A
ATOM	84 O GLU A 108	38.403 10.768 4.720 1.00 1	L5.54 A
ATOM	. 85 N LEU A 109	36.842 12.057 5.703 1.00 1	
ATOM			
		36.920 13.072 4.667 1.00 1	.3.21 A
ATOM	87 CB LEU A 109	35.772 14.076 4.823 1.00 1	.4.04 A
ATOM	88 CG LEU A 109	35.622 15.125 3.721 1.00 1	
ATOM	89 CD1 LEU A 109		
		35.590 14.448 2.353 1.00 1	
ATOM	90 CD2 LEU A 109	34.345 15.925 3.958 1.00 1	5.78 A
ATOM	91 C LEU A 109	38.280 13.769 4.754 1.00 1	
ATOM	92 O LEU A 109		
ATOM			
	93 N ASP A 110	38.751 14.014 5,977 1.00 1	3.76 A
MOTA	94 CA ASP A 110	40.056 14.644 6.170 1.00 1	4.88 A
ATOM	95 CB ASP A 110	40.349 14.864 7.661 1.00 1	
ATOM	96 CG ASP A 110		
		39.606 16.057 8.240 1.00 1	5.43 A
ATOM	97 OD1 ASP A 110	38.930 16.782 7.475 1.00 1	5.66 A
ATOM	98 OD2 ASP A 110	39.706 16.272 9.471 1.00 1	
ATOM	99 C ASP A 110		
ATOM	100 O ASP A 110	42.067 14.261 4.910 1.00 1	5.60 A
ATOM	101 N LYS A 111	41.061 12.451 5.788 1.00 1	
ATOM	102 CA LYS A 111	10 000	
ATOM .			
		41.773 10.094 5.692 1.00 2	
ATOM	104 CG LYS A 111	41.970 9.845 7.176 1.00 28	8.51 A
ATOM	105 CD LYS A 111 ·	41.702 8.384 7.515 1.00 32	
ATOM	106 CE LYS A 111	1100 0	
ATOM	107 NZ LYS A 111		
		41.489 6.707 9.342 1.00 3	7.22 A
ATOM	108 C LYS A 111	42.070 11.585 3.720 1.00 18	3.08 A.
ATOM	109 O LYS A 111	43.136 11.599 3.098 1.00 19	
ATOM	110 N LEU A 112	2.00	
ATOM		1.00	
	111 CA LEU A 112	40.771 11.680 1.666 1.00 18	3.11 A
ATOM	112 CB LEU A 112	39.300 11.662 1.244 1.00 18	3.15 A
ATOM	113 CG LEU A 112	39.045 11.712266 1.00 19	
ATOM	114 CD1 LEU A 112	20 555	
ATOM	115 CD2 TEN 2: 116	39.575 10.438906 1.00 20	
	115 CD2 LEU A 112	37.556 11.857538 1.00 18	.97 A
ATOM	116 C LEU A 112	41.424 12.958 1.151 1.00 18	
ATOM	117 O LEU A 112		
ATOM			
		41.315 14.021 1.944 1.00 18	.70 A
MOTA	119 CA LEU A 113	41.879 15.321 1.592 1.00 18	.77 A
ATOM	120 CB LEU A 113	41.003 16.442 2.160 1.00 18	
ATOM	121 CG LEU A 113		
ATOM		2.00 21	
		38.779 17.536 2.391 1.00 21	.32 A
ATOM	123 CD2 LEU A 113	39.735 17.096 .120 1.00 22	
ATOM	124 C LEU A 113		
ATOM	125 O LEU A 113	1.00 20	
ATOM	-	43.843 16.606 2.098 1.00 20	
	126 N GLN A 114	43.935 14.392 2.498 1.00 19	.91 A
ATOM	127 CA GLN A 114	45.313 14.420 2.974 1.00 21	
ATOM	128 CB GLN A 114		
ATOM	129 CG GLN A 114		.49 A
	·	46.229 13.937 .635 1.00 23	.81 A
ATOM	130 CD GLN A 114	47.072 14.475504 1.00 24	.77 A
ATOM	131 OE1 GLN A 114	48.272 14.698351 1.00 27	70
		1.00 27	.78 A

				•					
ATOM	132	NE2	GLN	A 114	46.444	14.691	-1.653	1.00 26.63	2 A
ATOM	133	С	GLN	A 114	45.521	15.340	4.171	1.00 20.83	L A
ATOM	134	0		A 114	46.588	15.938	4.323	1.00 24.10) A
ATOM	135	N		A 115	44.506	15.455	5.019	1.00 18.52	2 A
ATOM	136	CA		A 115	44.628	16.302	6.189	1.00 19.04	1 A
ATOM	137	c		A 115	43.440	17.215	6.393	1.00 17.02	
ATOM	138	Ö		A 115	43.026	17.462	7.524	1.00 18.60	
	139	N		A 116	42.886	17.714	5.292	1.00 15.87	
ATOM					41.740	18.600	5.372	1.00 14.60	
ATOM	140	CA		A 116	41.760	19.626	4.253	1.00 14.2	
MOTA	141	С		A 116			3.276	1.00 14.2	
ATOM	142	0	•	A 116	42.488	19.462	4.393	1.00 12.49	
ATOM	143	N		A 117	40.967	20.683			
MOTA	144	CA		A 117	40.907	21.738	3.384	1.00 11.3	
ATOM	145	СВ		A 117	39.677	22.639	3.619	1.00 10.73	
MOTA	146	CG2			39.706	23.836	2.676	1.00 12.58	
ATOM	147		ILE			21.819	3.429	1.00 12.81	
ATOM	148		ILE		38.180	21.302	2.016	1.00 14.44	
MOTA	149	С		A 117	42.195	22.559	3.428	1.00 10.99	
MOTA	150	0	ILE	A 117	42.578	23.093	4.466	1.00 12.19	
ATOM	151	N	GLU	A 118	42.849	22.665	2.277	1.00 10.5	
ATOM	152	CA	GLU	A 118	44.132	23.343	2.151	1.00 12.58	
ATOM	153	CB	GLU	A 118	44.870	22.714	. 968	1.00 15.6	
ATOM	154	CG	GLU	A 118	46.365	22.783	1.022	1.00 21.43	
ATOM	155	CD	GLU	A-118	46.996	21.963	085	1.00 20.95	
ATOM	156	OE1	GLU	A 118	47.180	22.499	-1.194	1.00 23.24	1 A
MOTA	157	OE2	-GLU	A 118	47.284	20.773	.156	1.00 26.48	3 A
ATOM	158	С	GLU .	A 118	44.120	24.861	1.982	1.00 12.88	3 A
ATOM	159	0	GLU .	A 118	43.449	25.384	1.098	\cdot 1.00 12.57	7 A
ATOM	160	N	THR .	A 119	44.872	25.569	2.822	1.00 11.49	5 A
ATOM	161	CA		A 119	44.962	27.017	2.681	1.00 11.27	7 A
ATOM	162	СВ		A 119	45.553	27.700	3.946	1.00 11.69	5 A
ATOM	163		THR		46.863	27.180	4.220	1.00 12.69	Э А
ATOM	164		THR .		44.650	27.468	5.149	1.00 11.67	
ATOM	165	c		A 119	45.891	27.282	1.492	1.00 11.98	
ATOM	166	ō		A 119		26.467	1.194	1.00 12.27	
ATOM	167	N		A 120	45.679	28.397	.798	1.00 10.27	
ATOM	168	CA		A 120	46.526	28.740	333	1.00 10.55	
ATOM	169			A 120	46.071	28.245	-1.690	1.00 10.39	
ATOM	170	Ö		A 120	46.737	28.490	-2.700	1.00 11.43	
	171	N		A 121	44.948	27.534	-1.726	1.00 10.13	
ATOM					44.423	27.028	-2.984	1.00 9.86	
ATOM	172	CA		A 121	45.008	25.645	-3.299	1.00 13.87	
ATOM	173	CB		A 121		24.700	-2.326	1.00 19.34	
ATOM	174	OG		A 121	44.622		-2.326	1.00 19.34	
ATOM	175	C		A 121	42.904	26.947	-1.875		
ATOM	176	0		A 121	42.302	27.194		1.00 8.68	
ATOM	177	N		A 122	42.298	26.611	-4.048	1.00 9.44	
ATOM	178	CA		A 122	40.854	26.503	-4.154	1.00 10.10	
ATOM	179	СВ		A 122	40.360	27.090	-5.505	1.00 10.40	
MOTA	180		ILE A		38.858	26.863	-5.663	1.00 12.37	
ATOM	181		ILE A		40.702	28.579	-5.586	1.00 13.97	
ATOM .	182		ILE		40.453	29.187	-6.952	1.00 14.82	
ATOM	183	С		A 122	40.381	25.056	-4.072	1.00 11.37	
ATOM	184	0		A 122	40.982	24.162	-4.666	1.00 12.71	
MOTA	185	N		A 123	39.323	24.832	-3.304	1.00 9.56	
ATOM	186	CA	THR A	A 123	38.708	23.513	-3.212	1.00 9.79	
ATOM	187	СB	THR A	A 123	38.526	23.041	-1.760	1.00 10.66	
ATOM	188	OG1	THR A	A 123	39.811	22.851	-1.158	1.00 13.42	
ATOM	189	CG2	THR A	A 123	37.751	21.719	-1.724	1.00 10.55	i A
ATOM	190	С	THR A	A 123	37.339	23.769	-3.827	1.00 8.71	
ATOM	191	0	THR A	A 123	36.581	24.603	-3.329	1.00 10.46	
ATOM	192	N	GLU A	A 124	37.041	23.084	-4.926	1.00 9.35	A
ATOM	193	CA	GLU 7	A 124	35.770	23.256	-5.624	1.00 9.53	A
ATOM	194	СВ	GLU A	A 124	36.043	23.472	-7.115	1.00 12.39	
	195	CG		A 124	34.820	23.549	-8.006	1.00 13.73	A
ATOM	196	CD		A 124	35.199	23.914	-9.429	1.00 17.73	A
ATOM	197		GLU A		36.273	23.462	-9.887	1.00 16.72	
ATOM	198		GLU A		34.428		-10.086	1.00 18.68	
ATOM	199	С		A 124		22.025	-5.399	1.00 10.21	

ATOM	200 0	GLU A 124	35.28	3 20.911	-5.749	9 1.00 10.78	A
ATOM	201 N		33.72				
							A
ATOM	202 0	A MSE A 125	32.82	5 21.143	3 -4.499	5 1.00 11.22	Α
ATOM	203 C	B MSE A 125	32.41	3 21.237	-3.028	3 1.00 13.67	A
ATOM		G MSE A 125	33.60				
							A
ATOM		E MSE A 125	33.16		250	1.00 21.89	Α
ATOM	206 C	E MSE A 125	31.99	1 22.745	036	1.00 16.55	Α
ATOM	207 C	MSE A 125	31.59				
							A
ATOM	208 O		30.87		-5.495	5 1.00 12.87	A
ATOM	209 พ	PHE A 126	31.36	1 19.986	-6.026	1.00 13.37	A
ATOM	210 C	A PHE A 126	30.22				
ATOM							A
		B PHE A 126	30.63		-8.185	1.00 13.72	A
ATOM	212 C	G PHE A 126	31.57	5 19.857	-9.059	1.00 15.70	Α
ATOM	213 C	D1 PHE A 126	32.93	3 19.890			A
ATOM		D2 PHE A 126	31.09				
					-10.155		A
ATOM		E1 PHE A 126	33.81		-9.588		A
ATOM	216 C	E2 PHE A 126	31.96	1 21.297	-10.966	1.00 16.46	A
ATOM	217 C		33.32		-10.682		
	•						A
ATOM	218 C		29.078	3 19.083	-6.252	1.00 16.95	A
ATOM	219 0	PHE A 126	29.292	2 18.071	-5.589	1.00 16.20	Α
ATOM	220 N	GLY A 127	27.860	19.597			A
ATOM							
	•		26.683				A
ATOM	222 C	GLY A 127	25.608	3 20.006	-5.542	1.00 24.79	Α
ATOM	223 0	GLY A 127	25.904	21.181	-5.300	1.00 24.48	A
ATOM	224 N		24.354				
					-5.535		A
ATOM	225 C	A GLU A 128	23.230		-5.228	1.00 28.56	A
ATOM ·	226 C	B GLU A 128	21.929	19.863	-5.787	1.00 31.81	А
ATOM	227 C		21.852		-7.305		
							A
ATOM	228 CI		21.889	21.199	-7.932	1.00 39.77	Α
ATOM	229 O	E1 GLU A 128	21.116	22.075	-7.487	1.00 42.32	А
ATOM	230 OF	E2 GLU A 128	22.685	21.410	-8.874		A
ATOM	231 C	GLU A 128					
			23.089		-3.721		A
ATOM	232 0	GLU A 128	23.714		-2.949	1.00 27.36	Α
ATOM	233 N	PHE A 129	22.269	21.567	-3.306		А
ATOM	234 CF		22.044	21.794			
					-1.887		A
ATOM	235 CE		20.979	22.879	-1.682	1.00 26.99	A
ATOM	236 CG		20.628	23.128	238	1.00 27.71	Α
ATOM	237 CD	1 PHE A 129	21.607	23.501	. 678	1.00 26.29	
ATOM		2 PHE A 129					A
			19.311	23.006	.203	1.00 27.59	Α
ATOM		1 PHE A 129	21.284	23.751	2.013	1.00 27.10	Α
ATOM	240 CE	2 PHE A 129	18.976	23.253	1.537	1.00 27.95	A
ATOM	241 CZ		19.966	23.627	2.443		
ATOM						1.00 28.18	А
		PHE A 129	21.567	20.467	-1.312	1.00 26.38	A
ATOM	243 0	PHE A 129	20.789	19.756	-1.949	1.00 26.54	A .
ATOM	244 N	ARG A 130	22.062	20.138	124	1.00 25.28	
ATOM	245 CA		21.727				A
				18.909	.589	1.00 24.10	Α
ATOM	246 CB		20.270	18.507	.331	1.00 27.41	Α
ATOM	247 CG	ARG A 130	19.291	19.529	.893	1.00 32.24	Α .
ATOM	248 CD	ARG A 130	17.866	19.017	. 958	1.00 38.42	
ATOM	249 NE						A
			17.058	19.876	1.820	1.00 44.65	A
ATOM	250 CZ		15.787	19.650	2.135	1.00 48.26	A
ATOM	251 NH	1 ARG A 130	15.160	18.583	1.657	1.00 50.05	A
ATOM		2 ARG A 130	15.144	20.490	2.937		
ATOM					_	1.00 49.61	A
		ARG A 130	22.666	17.735	. 327	1.00 21.02	A
ATOM	254 O	ARG A 130	22.608	16.737	1.035	1.00 20.30	Α.
MOTA	255 N	THR A 131	23.530	17.846	680	1.00 19.13	
ATOM	256 CA	THR A 131	24.490	16.776			A
ATOM					955	1.00 17.15	A
		THR A 131	25.129	16.904	-2.351	1.00 19.70	A
ATOM	258 OG1		25.761	18.184	-2.469	1.00 21.01 -	А
ATOM	· 259 CG2	2 THR A 131	24.079	16.744	-3.439	1.00 22.19	
ATOM	260 C	THR A 131					A
ATOM			25.601	16.899	.082	1.00 16.43	A
	261 0	THR A 131	26.455	16.020	.212	1.00 15.57	A
ATOM	262 N	GLY A 132	25.583	18.012	.810	1.00 15.23	A
ATOM	263 CA	GLY A 132	26.581	18.246	1.836	1.00 14.02	
ATOM	264 C	GLY A 132					A
ATOM			27.459	19.463	1.598	1.00 13.72	A
	265 0	GLY A 132	28.118	19.935	2.524	1.00 13.81	A
ATOM	266 N	LYS A 133	27.467	19.986	. 374	1.00 12.58	A
ATOM	267 CA	LYS A 133	28.306	21.140			
			20.300	21.140	.060	1.00 12.45	Α

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ATOM	268	СВ	LYS	Α	133	28.111	21.557	-1.408	1.00	13.99	A
ATOM	269	CG	LYS	Α	133	26.687	21.910	-1.804	1.00	16.59	Α
ATOM	270	CD	LYS	Α	133	26.511	23.414	-1.951	1.00		A
MOTA	271	CE			133	25.098		-2.398	1.00		A
ATOM	272	NZ			133	24.906		-2.577	1.00		A
ATOM	273	С			133	28.111	22.343	. 990	1.00		A
ATOM	274	0			133	29.084	22.923	1.476	1.00		A
ATOM	275	N			134	26.866		1.250	1.00		A
ATOM .	276	CA			134	26.615	23.856	2.123	1.00		A
ATOM	277	CB			134	25.169		1.959	1.00		Α
ATOM	278	OG1 CG2			134	24.999 24.874	24.861 25.485	.622 2.950	1.00		. · А А
ATOM	279 280	C			134 134	26.892	23.465	3.585		11.44	A
ATOM ATOM	281	Ö			134	27.315	24.380	4.357		11.86	A
ATOM	282	N			135	26.668	22.260	3.964		11.19	A
ATOM	283	CA			135	26.920	21.833	5.339	1.00	9.68	A
ATOM	284	СВ			135	26.391	20.419	5.581	1.00	12.98	A
ATOM	285	CG	GLN	Α	135	24.923	20.247	5.243	1.00	15.40	A
MOTA	286	CD	GLN	Α	135	24.058	21.355	5.807		19.13	A
MOTA	287	OE1	GLN	Α	135	23.318	22.011	5.071	1.00		Α
ATOM	288	NE2			135	24.141	21.570	7.115	1.00		A
MOTA	289	C			135	28.420	21.868	5.605	1.00		A
MOTA	290	0			135	28.859	22.279	6.679	1.00	9.99	A
ATOM	291	N			136	29.204	21.432	4.624	1.00	9.71	A
ATOM	292	CA			136	30.655 31.345	21.449	4.761	1.00	9.93	A A
ATOM	293	CB	ILE		136	32.840	20.817 21.125	3.528 3.548	1.00		. A
ATOM ATOM	294 295		ILE			31.113	19.303	3.528		12.11	A
ATOM	296		ILE			31.574	18.602	2.263		10.81	A
ATOM	297	C			136	31.112	22.896	4.924		10.64	A
ATOM	298	ō			136	31.962	23.195	5.764	1.00	9.71	A
ATOM	299	N			137		23.796	4.129	1.00	10.36	A
ATOM -	300	CA			137	30.896	25.209	4.210		10.00	A
ATOM	301	СВ	CYS	A	137	30.135	26.025	3.164	1.00	8.86	A
MOTA	302	SG	CYS	Α	137	30.711	25.760	1.458	1.00	13.33	A
MOTA	303	С	CYS	Α	137	30.620	25.777	5.598	1.00	7.98	A
ATOM	304	0			137	31.448	26.500	6.151	1.00		. A
ATOM	305	N	HIS			29.461	25.456	6.165	1.00	8.44	A
ATOM	306	CA	HIS			29.131	25.960	7.493	1.00	7.87	A
ATOM	307	CB	HIS			27.675 26.672	25.634	7.864 7.280	1.00	9.77 9.79	A
ATOM ATOM	308 309	CG	HIS			25.904	26.585 27.537	7.260	1.00		A A
ATOM	310		HIS			26.385	26.629	5.933	1.00		Ā
ATOM	311		HIS			25.482	27.570	5.708		12.62	A
ATOM	312		HIS			25.175	28.136	6.860	1.00		A
ATOM	313	С	HIS			30.070	25.384	8.549	1.00	8.06	A
ATOM	314	0	HIS	Α	138	30.481	26.091	9.465	1.00	9.19	Α
ATOM	315	N	THR	Α	139	30.412	24.107	8.422	1.00	7.84	Α
MOTA	316	CA	THR			31.306	23.489	9.395	1.00	8.21	Α
MOTA	317	СВ	THR			31.439	21.970	9.154	1.00	9.18	A
	318		THR			30.147	21.358	9.273		1.07	· A
ATOM	319		THR		-	32.372	21.344	10.186	1.00	9.48	A
ATOM	320	С	THR			32.684	24.151	9.336	1.00	8.27	A
ATOM ATOM	321 322	0	THR LEU			33.249 33.208	24.504 24.328	10.365 8.126	1.00	8.65 6.73	A
ATOM	323	N CA	LEU			34.516	24.328	7.936	1.00	7.10	A
ATOM	324	CB	LEU			34.900	24.938	6.454	1.00	6.22	A A
ATOM	325	CG	LEU			35.191	23.585	5.806	1.00	7.89	A
ATOM	326		LEU			35.368	23.765	4.298	1.00	9.36	A
ATOM	327		LEU			36.446	22.975	6.425		0.17	A
ATOM	328	С	LEU			34.572	26.389	8.447	1.00	8.54	A
ATOM	329	0	LEU	Α	140	35.629	26.856	8.879	1.00	8.74	A
ATOM	330	N	ALA			33.444	27.094	8.380	1.00	8.10	· А
ATOM	331	CA	ALA			33.397	28.479	8.840	1.00	7.81	A
ATOM	332	СВ	ALA			32.044	29.098	8.513	1.00	7.95	Α
ATOM	333	C	ALA			33.664	28.551	10.339	1.00	8.11	A
ATOM	334	0	ALA			34.018	29.612	10.871	1.00	8.73	A
ATOM	335	N	VAL	A	142	33.488	27.419	11.018	1.00	7.57	A

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ATOM	336	CA	VAI	. A	142	33.74	6 27.349	12.450	1.00 8.68	Α
ATOM	337	СВ			142	32.62	8 26.579	13.187	1.00 8.53	A
ATOM	338	CG1			142	32.92	6 26.526	14.693	1.00 9.23	A
ATOM	339	CG2	VAI	A	142	31.29	2 27.270	12.946	1.00 9.18	A
ATOM	340	С	VAL	, A	142	35.08	7 26.674	12.742	1.00 8.97	A
ATOM	341	0	VAL	. A	142	35.88	9 27.197	13.517	1.00 10.90	A
ATOM	. 342	Ŋ	THE	A	143	35.34			1.00 9.37	A
MOTA	343	CA	THE	A	143	36.60			1.00 9.23	A
MOTA	344	CB			143	36.63			1.00 9.23	A
MOTA	345	OG1			143	36.49			1.00 9.23	A
ATOM	346	CG2			143	35.52			1.00 9.22	A
ATOM	347	C			143	37.83			1.00 9.03	A
ATOM.	348	0			143	38.92			1.00 10.11	A
ATOM	349	N			144	37.68			1.00 8.10 1.00 9.39	A A
ATOM	350	CA			144	38.84			1.00 9.38	A
ATOM	351 352	CB SG			144	38.51 37.37			1.00 12.00	A
ATOM ATOM	353	C			144	39.31			1.00 9.07	A
ATOM	354	Ö			144	40.44			1.00 10.50	A
ATOM	355	N			145				1.00 8.72	A
ATOM	356	CA			145	38.75			1.00 10.01	. A
ATOM	357	СВ			145	37.46			1.00 10.49	A
ATOM	358	CG			145	36.72			1.00 11.33	A
ATOM	359	CD	GLN	Α	145	35.49	9 31.375	13.976	1.00 13.67	A
ATOM	360	OE1	GLN	Α	145	35.54	3 31.907	15.086	1.00 14.78	A
ATOM	361	NE2	GLN	Α	145	34.39	8 31.355	13.234	1.00 10.01	, A
ATOM	362	С	GLN	Α	145	39.47	7 28.521	14.985	1.00 10.04	A
ATOM	363	0	GLN	Α	145	39.98			1.00 11.00	A
MOTA	364	N			146	39.52			1.00 9.00	A
ATOM	365	CA			146	40.17			1.00 10.62	A
ATOM	366	СВ			146	39.87			1.00 10.21	A
ATOM	367	CG			146	38.46			1.00 11.36	A
ATOM	368				146	38.39			1.00 11.83	A
ATOM	369				146	38.15			1.00 15.14	A
ATOM	370	С			146	41.69			1.00 11.26	A
ATOM	371	0			146	42.30		14.968 17.070	1.00 11.50 1.00 12.58	A
ATOM ATOM	372 373	N CD			147 [°] 147	42.309 41.680			1.00 12.30	A A
ATOM	374	CA			147	43.76			1.00 12.30	A
ATOM	375	СВ			147	44.010		18.608	1.00 13.51	A
ATOM	376	CG			147	42.79			1.00 13.16	A
ATOM	377	C			147	44.320			1.00 11.90	A
ATOM	378	0			147	43.670		15.796	1.00 12.36	A
ATOM	379	N	ILE	Α	148	45.505	25.602	15.620	1.00 12.68	A
ATOM	380	CA	ILE	Α	148	46.072	24.736	14.596	1.00 13.79	Α
ATOM	381	СВ	ILE	Α	148	47.433	3 25.279	14.105	1.00 15.52	A
ATOM	382	CG2	ILE	Α	148	48.074	24.290	13.141	1.00 16.43	A
ATOM	383	CG1				47.216		13.397	1.00 19.02	A
ATOM	384	CD1				48.492		12.980	1.00 23.77	A
ATOM	385	С			148	46.212		15.060	1.00 12.90	A
ATOM	386	0			148	45.996		14.277	1.00 12.36	A
ATOM	387	N	ASP			46.538		16.335	1.00 13.06	A
ATOM .	388	CA			149	46.687		16.833	1.00 13.17 1.00 14.99	A
ATOM	389 390	CB CG	ASP ASP			47.367 46.454		18.213 19.326	1.00 14.99	A A
ATOM	391	OD1				46.334		19.522	1.00 15.33	A
ATOM	392	OD2				45.856		20.005	1.00 13.33	A
ATOM	393		ASP			45.368		16.894	1.00 14.26	A
ATOM .	394		ASP			45.374		17.034	1.00 14.20	Â
ATOM	395		ARG			44.237		16.789	1.00 11.56	A
ATOM ·	396		ARG			42.940		16.810	1.00 12.66	A
ATOM	397		ARG			41.936		17.676	1.00 13.00	A
ATOM	398		ARG			42.306		19.157	1.00 13.36	A
ATOM	399 .	CD	ARG	Α	150	41.143	22.378	19.964	1.00 12.59	A
ATOM	400		ARG			40.019		19.975	1.00 12.66	A
ATOM	401		ARG			38.785		20.369	1.00 13.24	A
ATOM	402	NH1				38.494		20.791	1.00 13.27	A
ATOM	403	NH2	ARG	A	150	37.838	20.815	20.338	1.00 13.59	A

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ATOM	404	С	ARG	Α	150		42.391	20.819	15.390	1.00 13.09	A
ATOM	405	0			150		41.246	20.404	15.195	1.00 13.09	A
ATOM	406	N	GLY	Α	151		43.212	21.183	14.407	1.00 12.45	A
ATOM	407	CA	GLY	Α	151		42.797	21.082	13.017	1.00 12.19	A
ATOM	408	С			151		42.254	22.366	12.423	1.00 11.65	A
ATOM	409	0	GLY	Α	151		41.647	22.354	11.353	1.00 12.49	A
MOTA	410	N			152		42.472	23.484	13.106	1.00 11.30	A
ATOM	411	CA	GLY	Α	152		41.969	24.747	12.599	1.00 10.67	A
ATOM	412	С			152		43.004	25.589	11.885	1.00 11.78	A
ATOM	413	0			152		44.135	25.155	11.659	1.00 10.04	A
MOTA	414	N			153		42.603	26.805	11.522	1.00 11.68	A
MOTA	415	CA			153		43.504	27.713	10.842	1.00 12.29	A
MOTA	416	C			153		43.735	28.967	11.661	1.00 11.95	A A
ATOM	417	0			153		44.413	29.892 28.991	11.210 12.870	1.00 14.26 1.00 13.09	A
ATOM	418	N			154		43.178 43.310	30.138	13.765	1.00 13.65	Ā
ATOM	419	CA			154		44.722	30.135	14.359	1.00 15.09	A
ATOM	420 421	CB CG			154 154		44.722	29.184	15.479	1.00 17.51	A
ATOM ATOM	421	CD			154		46.372	29.050	15.907	1.00 21.30	A
ATOM	423				154		47.095	30.070	15.921	1.00 21.05	A
MOTA	424				154		46.779	27.920	16.244	1.00 21.68	A
ATOM	425	C			154		43.000	31.447	13.045	1.00 13.66	A
ATOM	426	ŏ			154		43.714	32.439	13.193	1.00 15.59	A
ATOM	427	N			155		41.921	31.444	12.271	1.00 12.01	A
ATOM	428	CA			155		41.549	32.638	11.540	1.00 11.09	A
ATOM	429	С	GLY	Α	155		40.055	32.792	11.354	1.00 11.53	A
ATOM	430	0	GLY	Α	155		39.278	31.872	11.616	1.00 10.72	A
ATOM	431	N	LYS	Α	156		39.654	33.976	10.903	1.00 11.50	A
ATOM	432	CA	LYS	Α	156		38.252	34.277	10.655	1.00 11.09	A
ATOM	433	СВ	LYS	Α	156		38.048	35.789	10.561	1.00 11.40	A
ATOM	434	CG	LYS	A	156		38.265	36.533	11.863	1.00 14.73	A
ATOM	435	CD			156		38.168	38.031	11.616	1.00 18.50	A
ATOM	436	CE			156		38.158	38.814	12.916	1.00 21.90	A
MOTA	437	NZ			156		38.016	40.271	12.640	1.00 26.01	A
MOTA	438	C			156		37.789	33.643	9.352	1.00 10.36	A
MOTA	439	0			156		38.599	33.213	8.529	1.00 9.77	A
ATOM	440	N			157		36.477	33.593	9.168	1.00 9.56	A
ATOM	441	CA			157		35.919	33.037 31.831	7.949 8.262	1.00 8.82 1.00 9.17	А
ATOM ATOM	442 443	CB C			157 157		35.042 35.093	34.085	7.234	1.00 10.33	A
ATOM	444	0			157		34.468	34.942	7.860	1.00 10.06	A
ATOM	445	N	MSE	-	158		35.099	34.006	5.912	.54 9.17	AC1
ATOM	446	CA	MSE		158		34.321	34.913	5.097	.54 10.42	AC1
ATOM	447	СВ	MSE		158		35.231	35.701	4.174	.54 11.72	AC1
ATOM	448	CG	MSE		158		34.551	36.879	3.548	.54 13.13	AC1
ATOM	449	SE	MSE	٠	158		35.839	37.882	2.572	.54 15.92	AC1
ATOM	450	CE	MSE		158		37.003	38.379	4.022	.54 11.46	AC1
ATOM	451	С	MSE		158		33.391	34.013	4.298	.54 10.25	AC1
MOTA	452	0	MSE		158		33.830	33.034	3.694	.54 10.22	AC1
ATOM	453	N			159		32.106	34.343	4.304	1.00 10.25	A
ATOM	454	CA			159		31.111	33.534	3.616	1.00 10.01	A
ATOM	455	СВ			159		30.201	32.892	4.676	1.00 9.57	A
ATOM	456	CG			159		29.410	31.677	4.242	1.00 10.37	A
ATOM	457		TYR				28.533	31.730	3.158	1.00 11.98	A
ATOM	458		TYR				27.786	30.609	2.783	1.00 13.38	A
ATOM	459		TYR				29.520	30.474	4.943	1.00 11.85	A
ATOM	460		TYR				28.777	29.350	4.576	1.00 11.39	A
ATOM ATOM	461 462	CZ OH	TYR		159		27.914 27.187	29.425 28.315	3.498 3.136	1.00 13.64 1.00 14.59	A
ATOM	462	C	TYR				30.267	34.333	2.630	1.00 14.39	A A
ATOM	464	0	TYR				29.432	35.139	3.038	1.00 10.23	
ATOM	465	N	ILE				30.490	34.115	1.336	1.00 10.49	. A A
ATOM	466	CA	ILE				29.705	34.792	.314	1.00 9.69	Ä
ATOM	467	СВ	ILE				30.568	35.214	896	1.00 9.03	Ä
ATOM	468	CG2					29.678	35.780	-1.999	1.00 13.08	A
ATOM	469	CG1					31.592	36.265	458	1.00 10.09	A
ATOM	470		ILE				32.556	36.699	-1.554	1.00 8.81	A
ATOM	471	С	ILE	A	160	•		33.794	135	1.00 10.60	A

ATOM 472 O ILE A 160 28.960 32.751 -708 1.00 10.08 A ATOM 473 N ASP A 161 27.390 31.117 -155 1.00 11.32 A ATOM 476 CB ASP A 161 26.263 33.260 -192 1.00 12.57 A ATOM 476 CB ASP A 161 23.963 32.540 .619 1.00 16.41 A ATOM 477 ODI ASP A 161 23.963 32.540 .619 1.00 16.41 A ATOM 478 ODZ ASP A 161 23.963 32.540 .619 1.00 16.41 A ATOM 478 ODZ ASP A 161 22.945 33.267 .589 1.00 19.96 A ATOM 478 ODZ ASP A 161 22.945 33.267 .589 1.00 19.96 A ATOM 478 ODZ ASP A 161 22.945 33.267 .589 1.00 19.96 A ATOM 480 O ASP A 161 25.520 33.815 -1.399 1.00 13.45 A ATOM 481 N THR A 162 24.984 32.925 -2.265 1.00 15.93 A ATOM 481 N THR A 162 24.984 33.011 -4.10 16.70 A ATOM 483 CB THR A 162 24.984 33.011 -4.761 1.00 16.70 A ATOM 485 CB THR A 162 24.999 31.011 -4.761 1.00 16.70 A ATOM 485 CB THR A 162 24.999 31.555 -4.087 1.00 17.06 A ATOM 485 CB THR A 162 22.4998 32.5594 -3.409 1.00 17.06 A ATOM 485 CB THR A 162 22.8988 32.594 -3.409 1.00 17.06 A ATOM 485 CB THR A 162 22.8988 32.594 -3.409 1.00 17.06 A ATOM 486 C THR A 162 22.192 32.898 32.594 -3.409 1.00 18.68 A ATOM 487 O THR A 162 22.192 32.895 32.594 -3.409 1.00 18.68 A ATOM 487 O THR A 162 22.192 32.895 32.594 -3.409 1.00 18.68 A ATOM 489 CB GLU A 163 22.717 31.629 -2.501 1.00 15.56 A ATOM 489 CB GLU A 163 22.717 31.629 -2.501 1.00 15.56 A ATOM 490 CB GLU A 163 22.717 31.629 -4.251 1.00 19.56 A ATOM 490 CB GLU A 163 22.291 23.293 1.00 1.00 18.68 A ATOM 490 CB GLU A 163 22.291 23.293 1.00 1.00 18.68 A ATOM 490 CB GLU A 163 22.291 23.293 1.00 19.00 18.68 A ATOM 490 CB GLU A 163 22.291 3.00 19.90 1.00 18.68 A ATOM 490 CB GLU A 163 22.291 3.00 19.90 1.00 18.68 A ATOM 490 CB GLU A 163 22.291 3.00 19.90 1.00 18.68 A ATOM 490 CB GLU A 163 22.291 3.00 19.90 1.00 18.68 A ATOM 490 CB GLU A 163 22.291 3.00 19.90 1.00 18.68 A ATOM 490 CB GLU A 163 22.291 3.00 19.90 1.00 18.60 1.00 27.45 A ATOM 490 CB GLU A 163 22.291 3.00 19.90 1.00 18.60 1.00 27.45 A ATOM 490 CB GLU A 163 22.291 3.00 19.90 1.00 18.60 1.00 27.45 A ATOM 490 CB GLU A 163 22.291 3.00 19.90 1.00 18.60 1.00 19.90 A ATOM 490 CB GLU A 16						•				
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ATOM 508 N PHE A 166 22.543 30.574 4.125 1.00 16.85 A ATOM 508 N PHE A 166 22.543 30.574 4.125 1.00 15.79 A ATOM 509 CA PHE A 166 23.477 30.820 5.217 1.00 14.36 A ATOM 510 CB PHE A 166 24.153 32.181 5.058 1.00 13.90 A ATOM 511 CG PHE A 166 25.137 32.498 6.154 1.00 13.95 A ATOM 512 CD1 PHE A 166 26.357 31.829 6.230 1.00 13.42 A ATOM 513 CD2 PHE A 166 24.840 33.462 7.115 1.00 13.77 A ATOM 515 CE2 PHE A 166 27.270 32.119 7.248 1.00 13.37 A ATOM 515 CE2 PHE A 166 25.744 33.759 8.135 1.00 13.84 A ATOM 516 CZ PHE A 166 25.744 33.759 8.135 1.00 13.84 A ATOM 516 CZ PHE A 166 26.963 33.086 8.202 1.00 14.21 A ATOM 517 C PHE A 166 22.650 30.805 6.498 1.00 14.21 A ATOM 518 O PHE A 166 22.650 30.805 6.498 1.00 16.02 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 15.67 A ATOM 520 CA ARG A 167 23.073 30.018 7.482 1.00 14.61 A ATOM 520 CA ARG A 167 22.333 29.919 8.785 1.00 17.46 A ATOM 522 CG ARG A 167 22.333 29.919 8.785 1.00 17.46 A ATOM 523 CD ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 527 NE ARG A 167 19.307 29.307 7.944 1.00 30.64 A ATOM 527 NE ARG A 167 19.307 29.307 7.944 1.00 30.64 A ATOM 527 NE ARG A 167 19.307 29.307 7.944 1.00 30.64 A ATOM 527 NE ARG A 167 19.307 29.307 7.944 1.00 30.64 A ATOM 527 NE ARG A 167 19.307 29.307 7.944 1.00 30.64 A ATOM 529 C ARG A 167 19.307 29.306 6.940 1.00 30.64 A ATOM 527 NE ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 527 NE ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 530 C PRO A 168 23.561 32.846 12.273 1.00 14.33 A ATOM 531 CD PRO A 168 23.561 32.846 12.273 1.00 14.33 A ATOM 532 CA PRO A 168 23.561 32.846 12.273 1.00 14.33 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.561 33.561 1.00 15.63 A ATOM 535 C PRO A 168 23.561 33.563 1.00 16.46 A ATOM 536 C PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 536 C PRO A 168 23.561 33.654 1.00 16.46 A ATOM 538 CA GUU A 169 22.508 29	MOTA	505	CG2	THR .	A 16					
ATOM 508 N PHE A 166 22.543 30.574 4.125 1.00 15.79 A ATOM 509 CA PHE A 166 23.477 30.820 5.217 1.00 14.36 A ATOM 510 CB PHE A 166 224.153 32.181 5.058 1.00 13.90 A ATOM 511 CG PHE A 166 25.137 32.498 6.154 1.00 13.95 A ATOM 512 CD1 PHE A 166 26.357 31.829 6.230 1.00 13.42 A ATOM 513 CD2 PHE A 166 24.840 33.462 7.115 1.00 13.77 A ATOM 514 CE1 PHE A 166 27.270 32.119 7.248 1.00 13.37 A ATOM 515 CE2 PHE A 166 25.744 33.759 8.135 1.00 13.84 A A ATOM 516 CZ PHE A 166 26.963 33.086 8.202 1.00 14.21 A ATOM 517 C PHE A 166 22.650 30.080 6.29 1.00 14.21 A ATOM 518 O PHE A 166 22.650 30.080 6.29 1.00 16.02 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 15.82 A ATOM 519 N ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 522 CG ARG A 167 22.533 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 525 CZ ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 526 NE ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 527 NE ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 528 C ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 528 C ARG A 167 23.897 29.999 10.375 1.00 14.69 A ATOM 528 C ARG A 167 23.897 29.999 10.375 1.00 14.69 A ATOM 528 C ARG A 167 23.897 29.999 10.375 1.00 14.69 A ATOM 530 N PRO A 168 22.557 32.476 10.12 1.00 14.69 A ATOM 531 CD PRO A 168 22.557 32.476 10.12 1.00 14.33 A ATOM 532 CA PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.515 32.846 12.273 1.00 14.97 A ATOM 535 C PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 536 C PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 536 C PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 536 C PRO A 168 23.561 32.846 12.273 1.00 16.84 A ATOM 536 C PRO A 168 23.561 32.846 12.273 1.00 16.84 A ATOM 536 C PRO A 168 23.561 32.846 12.273 1.00 16.46 A ATOM 536	ATOM	506	С	THR .	A 16	5 22.11	7 29.344			A
ATOM 509 CA PHE A 166 23.477 30.820 5.217 1.00 14.36 A ATOM 510 CB PHE A 166 24.153 32.181 5.058 1.00 13.90 A ATOM 511 CG PHE A 166 25.137 32.498 6.154 1.00 13.95 A ATOM 512 CD1 PHE A 166 26.357 31.829 6.230 1.00 13.42 A ATOM 513 CD2 PHE A 166 24.840 33.462 7.115 1.00 13.77 A ATOM 514 CE1 PHE A 166 27.270 32.119 7.248 1.00 13.37 A ATOM 515 CZ PHE A 166 25.444 33.759 8.135 1.00 13.84 A ATOM 516 CZ PHE A 166 25.444 33.759 8.135 1.00 13.84 A ATOM 517 C PHE A 166 22.650 30.805 6.498 1.00 14.21 A ATOM 518 O PHE A 166 22.650 30.805 6.498 1.00 16.02 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 14.61 A ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 22.533 29.919 8.738 1.00 15.67 A ATOM 522 CG ARG A 167 22.533 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 530 N PRO A 168 23.186 31.223 10.057 1.00 13.43 A ATOM 531 CD PRO A 168 23.561 32.846 12.273 1.00 14.33 A ATOM 533 CB PRO A 168 23.515 33.530 10.956 1.00 15.63 A ATOM 533 CB PRO A 168 23.515 33.530 10.956 1.00 15.63 A ATOM 533 CB PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 537 N GLU A 169 22.508 29.886 14.036 1.00 15.63 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A	MOTA	507	0	THR	A 16	5 22.512				
ATOM 510 CB PHE A 166	ATOM	508	N	PHE	A 16	6 22.543				
ATOM 511 CG PHE A 166 25.137 32.498 6.154 1.00 13.95 A ATOM 512 CD1 PHE A 166 26.357 31.829 6.230 1.00 13.42 A ATOM 513 CD2 PHE A 166 24.840 33.462 7.115 1.00 13.77 A ATOM 514 CE1 PHE A 166 27.270 32.119 7.248 1.00 13.37 A ATOM 515 CE2 PHE A 166 25.744 33.759 8.135 1.00 13.84 A ATOM 516 CZ PHE A 166 26.963 33.086 8.202 1.00 14.21 A ATOM 517 C PHE A 166 22.650 30.805 6.498 1.00 16.02 A ATOM 518 O PHE A 166 21.637 31.502 6.592 1.00 14.21 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 15.82 A ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 522 CG ARG A 167 21.574 28.590 8.785 1.00 17.46 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 525 CZ ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.90 A ATOM 527 NH2 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 527 NH2 ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 527 NH2 ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.33 A ATOM 531 CD PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 533 CB PRO A 168 23.584 31.455 11.836 1.00 15.63 A ATOM 533 CB PRO A 168 23.586 30.391 12.219 1.00 14.97 A ATOM 534 CG PRO A 168 23.586 30.391 12.219 1.00 16.84 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 536 O PRO A 168 23.586 29.887 13.015 1.00 16.84 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 16.46 A ATOM 538 CA GLU A 169 22.508 29.887 13.015 1.00 16.46 A	MOTA	509	CA	PHE	A 16	6 23.47	7 30.820			A
ATOM 512 CD1 PHE A 166 26.357 31.829 6.230 1.00 13.42 A ATOM 513 CD2 PHE A 166 24.840 33.462 7.115 1.00 13.77 A ATOM 514 CE1 PHE A 166 27.270 32.119 7.248 1.00 13.37 A ATOM 515 CE2 PHE A 166 25.744 33.759 8.135 1.00 13.84 A ATOM 516 CZ PHE A 166 25.744 33.759 8.135 1.00 13.84 A ATOM 516 CZ PHE A 166 26.963 33.086 8.202 1.00 14.21 A ATOM 517 C PHE A 166 22.650 30.805 6.498 1.00 16.02 A ATOM 518 O PHE A 166 21.637 31.502 6.592 1.00 15.82 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 15.62 A ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.267 29.086 6.940 1.00 32.90 A ATOM 526 NH1 ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 527 NH2 ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 23.984 31.445 11.836 1.00 15.63 A ATOM 533 CB PRO A 168 23.984 31.445 11.836 1.00 15.63 A ATOM 534 CG PRO A 168 23.984 31.445 11.836 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	510	CB	PHE A	A 16				•	
ATOM 513 CD2 PHE A 166 24.840 33.462 7.115 1.00 13.77 A ATOM 514 CE1 PHE A 166 27.270 32.119 7.248 1.00 13.37 A ATOM 515 CE2 PHE A 166 25.744 33.759 8.135 1.00 13.84 A ATOM 516 CZ PHE A 166 26.963 33.086 8.202 1.00 14.21 A ATOM 517 C PHE A 166 22.650 30.805 6.498 1.00 16.02 A ATOM 518 O PHE A 166 22.650 30.805 6.498 1.00 16.02 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 15.82 A ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 525 CZ ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.33 A ATOM 531 CD PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 C PRO A 168 23.738 30.092 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.886 14.036 1.00 18.18	ATOM	511	CG	PHE I	A 16	6 25.13°	7 32.498			A
ATOM 514 CE1 PHE A 166 27.270 32.119 7.248 1.00 13.37 A ATOM 515 CE2 PHE A 166 25.744 33.759 8.135 1.00 13.84 A ATOM 516 CZ PHE A 166 26.963 33.086 8.202 1.00 14.21 A ATOM 517 C PHE A 166 22.650 30.805 6.498 1.00 16.02 A ATOM 518 O PHE A 166 21.637 31.502 6.592 1.00 15.82 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 15.82 A ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 525 CZ ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 527 NH2 ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 527 NH2 ARG A 167 17.272 29.366 6.940 1.00 32.52 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 34.53 A ATOM 529 O ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.508 29.887 13.015 1.00 17.31 A	MOTA	512	CD1	PHE A	A 16	6 26.35	7 31.829			
ATOM 515 CE2 PHE A 166 25.744 33.759 8.135 1.00 13.84 A ATOM 516 CZ PHE A 166 26.963 33.086 8.202 1.00 14.21 A ATOM 517 C PHE A 166 22.650 30.805 6.498 1.00 16.02 A ATOM 518 O PHE A 166 21.637 31.502 6.592 1.00 15.82 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 14.61 A ATOM 520 CA ARG A 167 23.073 30.018 7.482 1.00 14.61 A ATOM 521 CB ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 17.46 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 531 CD PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.984 31.445 11.836 1.00 15.63 A ATOM 533 CB PRO A 168 23.984 31.445 11.836 1.00 15.63 A ATOM 533 CB PRO A 168 23.984 31.445 11.836 1.00 15.63 A ATOM 535 C PRO A 168 23.984 31.445 11.836 1.00 15.63 A ATOM 535 C PRO A 168 23.984 31.445 11.836 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.219 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 14.036 1.00 18.18	MOTA	513	CD2	PHE I	A 16	6 24.840	33.462	7.115		A
ATOM 516 CZ PHE A 166 26.963 33.086 8.202 1.00 14.21 A ATOM 517 C PHE A 166 22.650 30.805 6.498 1.00 16.02 A ATOM 518 O PHE A 166 21.637 31.502 6.592 1.00 15.82 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 14.61 A ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.33 A ATOM 531 CD PRO A 168 23.561 32.846 12.273 1.00 14.33 A ATOM 532 CA PRO A 168 23.561 32.846 12.273 1.00 14.33 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 14.97 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 20.928 7 13.615 1.00 17.31 A ATOM 537 N GLU A 169 22.508 29.886 14.036 1.00 18.18	ATOM	514	CE1	PHE A	A 16	6 27.270	32.119	7.248	1.00 13.37	A
ATOM 518 O PHE A 166 22.650 30.805 6.498 1.00 16.02 A ATOM 518 O PHE A 166 21.637 31.502 6.592 1.00 15.82 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 14.61 A ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 21.574 28.590 8.785 1.00 17.46 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 19.307 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 530 N PRO A 168 23.3897 29.099 10.375 1.00 13.43 A ATOM 531 CD PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 532 CA PRO A 168 23.561 32.846 12.273 1.00 14.33 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A	MOTA	515	CE2	PHE A	A 16	6 25.744	33.759	8.135	1.00 13.84	A
ATOM 518 O PHE A 166 21.637 31.502 6.592 1.00 15.82 A ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 14.61 A ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 21.574 28.590 8.785 1.00 17.46 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.267 29.086 6.940 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A	ATOM .	516	CZ	PHE A	A 16	6 26.963	33.086	8.202	1.00 14.21	A
ATOM 519 N ARG A 167 23.073 30.018 7.482 1.00 14.61 A ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 21.574 28.590 8.785 1.00 17.46 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 23.186 31.223 10.627 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	MOTA	517	С	PHE A	A 16	6 22.650	30.805		1.00 16.02	A
ATOM 520 CA ARG A 167 22.333 29.919 8.738 1.00 15.67 A ATOM 521 CB ARG A 167 21.574 28.590 8.785 1.00 17.46 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.561 32.846 12.273 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 15.63 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 15.64 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A	ATOM	518	0	PHE I	A 16	6 21.637				
ATOM 521 CB ARG A 167 21.574 28.590 8.785 1.00 17.46 A ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A	ATOM	519	N	ARG A	A 16	7 23.073	30.018	7.482	1.00 14.61	A
ATOM 522 CG ARG A 167 20.523 28.425 7.695 1.00 21.67 A ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 537 N GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	520	CA					8.738		A
ATOM 523 CD ARG A 167 19.307 29.307 7.944 1.00 26.33 A ATOM 524 NE ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	521	CB	ARG A	A 16			8.785	1.00 17.46	A
ATOM 524 NE ARG A 167 18.267 29.086 6.940 1.00 30.64 A ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 23.738 30.391 12.919 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	522	CG	ARG A	A 16			7.695	1.00 21.67	
ATOM 525 CZ ARG A 167 18.256 29.639 5.731 1.00 32.90 A ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 15.63 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	523	CD	ARG A	A 16	7 19.307	29.307	7.944	1.00 26.33	A
ATOM 526 NH1 ARG A 167 19.229 30.462 5.362 1.00 32.52 A ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 15.63 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	524	NE	ARG A	1 16	7 18.267	29.086	6.940	1.00 30.64	A
ATOM 527 NH2 ARG A 167 17.272 29.362 4.884 1.00 34.53 A ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 534 CG PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	MOTA	525	CZ	ARG A	4 16	7 18.25€	29.639	5.731	1.00 32.90	A
ATOM 528 C ARG A 167 23.206 30.046 9.984 1.00 14.69 A ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 534 CG PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 535 C PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	MOTA	526	NH1	ARG A	A 16	7 19.229	30.462	5.362	1.00 32.52	A
ATOM 529 O ARG A 167 23.897 29.099 10.375 1.00 13.43 A ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	527	NH2	ARG A	A 16	7 17.272	29.362	4.884	1.00 34.53	A
ATOM 530 N PRO A 168 23.186 31.223 10.627 1.00 14.89 A ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	528	С	ARG A	16	7 23.206	30.046	9.984	1.00 14.69	A
ATOM 531 CD PRO A 168 22.557 32.476 10.172 1.00 14.33 A ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	529	0	ARG A	16	7 . 23.897	29.099	10.375	1.00 13.43	A
ATOM 532 CA PRO A 168 23.984 31.445 11.836 1.00 15.39 A ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	530	N	PRO A	A 16	8 23.186	31.223	10.627	1.00 14.89	· А
ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18	ATOM	531	CD	PRO A	1 16	B 22.557	32.476	10.172	1.00 14.33	A
ATOM 533 CB PRO A 168 23.561 32.846 12.273 1.00 14.97 A ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18									1.00 15.39	
ATOM 534 CG PRO A 168 23.315 33.530 10.956 1.00 15.63 A ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18 A	ATOM	533	СВ	PRO A	16			12.273	1.00 14.97	A
ATOM 535 C PRO A 168 23.738 30.391 12.919 1.00 16.84 A ATOM 536 O PRO A 168 24.656 30.028 13.654 1.00 16.46 A ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18 A	ATOM	534	CG	PRO A	16			10.956	1.00 15.63	•
ATOM 537 N GLU A 169 22.508 29.887 13.015 1.00 17.31 A ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18 A	ATOM	535	С	PRO A	16	8 23.738		12.919	1.00 16.84	A
ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18 A	ATOM	536	0	PRO A	1 16			13.654	1.00 16.46	A
ATOM 538 CA GLU A 169 22.208 28.886 14.036 1.00 18.18 A	ATOM	537	N	GLU A	1 16	9 22.508	29.887	13.015	1.00 17.31	A
ATOM 539 CB GLU A 169 20.714 28.538 14.055 1.00 21.53 A	MOTA		CA			9 22.208	28.886			A
	ATOM	539	CB	GLU A	16	9 20.714	28.538	14.055	1.00 21.53	A

MOT STAND OF MOTOR STANDS

ATOM	540	CG	GLU	Α	169	20.	140	28.117	12.717	1.00	26.55	A
ATOM	541	CĐ	GLU	Α	169	19.	394	29.242	12.019	1.00	30.20	A
ATOM .	542	OE 1	GLU	Α	169	19.		30.309	11.762		27.11	A
ATOM	543				169	18.		29.050	11.728		32.63	A
ATOM	544	C			169	23.		27.614	13.861		16.74	A
ATOM	545	0			169	23.		26.949	14.844		15.48	A
MOTA	546	N			170	23.		27.268	12.615		14.29	A
ATOM	547	CA			170	24.		26.077	12.363		13.93	A
ATOM	548	CB			170	24.		25.757	10.867		15.66	A
ATOM	549	CG			170	25.		24.536	10.535		20.09	A A.
ATOM	550	CD			170 170	24.		23.251 22.970	11.095		28.96	A
ATOM	551 552	NE CZ			170	23. 22.		22.859	11.197	1.00		A
ATOM ATOM	553		ARG			22.		23.000	12.514		33.04	A
ATOM	554		ARG			20.		22.616	10.573	1.00		A
MOTA	555	C			170	25.		26.301	12.899		13.95	. A
ATOM	556	ŏ			170	26.		25.387	13.455		12.96	A
ATOM	557	N			171	26,		27.518	12.736	1.00	12.17	, A
ATOM	558	CA			171	27.		27.839	13.233	1.00	11.76	A
ATOM	559	СВ	LEU	Α	171	27.	796	29.269	12.854	1.00	12.30	A
ATOM	560	CG	LEU	Α	171	27.	693 🗎	29.625	11.371	1.00	11.31	A·
ATOM	561	CD1	LEU	Α	171	28.	133	31.070	11.170	1.00	12.66	A
MOTA	562	CD2	LEU	Α	171	28.	552	28.677	10.546		12.20	A
ATOM	563	С	LEU	Α	171	27.	447	27.687	14.755		11.70	A
ATOM	564	0			171	28.		27.190	15.311		11.76	
MOTA	565	N			172	26.		28.114	15.427		11.75	A
ATOM	566	CA			172	26.		28.001	16.880		12.10	A
ATOM	567	СВ			172	25.0		28.656	17.424		12.80	A
ATOM	568	CG			172	24.9		30.178	17.302		14.86	. A
ATOM	569		LEU			23.		30.671	17.874	1.00	16.13	A
ATOM ATOM	570 571	CDZ	LEU		172	26.3 26.3		30.811 26.546	18.043 17.324		15.33 12.23	A A
ATOM	572	0			172	27.0		26.227	18.324		12.62	Ā
ATOM	573	N			173	25.		25.665	16.580		12.72	A
ATOM	574	CA			173	25.7		24.245	16.919		13.14	A
ATOM	575	СВ			173	24.7		23.486	16.041		11.87	A
ATOM	576	С	ALA			27.1		23.665	16.747		12.63	A
ATOM	577	0	ALA			27.5		22.894	17.581	1.00	11.33	A
ATOM	578	N	VAL	Α	174	27.7	187	24.034	15.662	1.00	10.42	A
ATOM	579	CA	VAL	A	174	29.1	133	23.534	15.428	1.00	9.27	A
ATOM	580	CB	VAL			29.6		23.953	14.041	1.00	9.04	А
ATOM	581		VAL			31.0		23.458	13.861	1.00	8.42	A
ATOM	582		VAL			28.7		23.386	12.955	1.00	9.09	A
ATOM	583	C	VAL			30.0		24.073	16.499		10.17	A
ATOM ATOM	584	0	VAL			30.9		23.358	16.977	1.00	10.23	A
ATOM	585 586	N CA	ALA ALA			29.8 30.7		25.335 25.951	16.877 17.897	1.00	9.90	A
ATOM	587	CB	ALA			30.7		27.407	18.108		10.67 11.94	. A A
ATOM	588	C	ALA			30.6		25.182	19.208		11.92	Ā
ATOM	589	ō	ALA			31.6		24.883	19.847		11.33	A
ATOM	590	N	GLU			29.3		24.854	19.600		13.20	A
ATOM	591	CA	GLU			29.1		24.119	20.845		13.21	A
ATOM	592	СВ	GLU	Α	176	27.6	64	23.932	21.099		15.61	A
ATOM	593	CG	GLU	Α	176	27.3	49	23.074	22.326	1.00	19.61	A
ATOM	594	CD	GLU			25.8	79	23.099	22.705	1.00	23.95	A
ATOM	595		GLU			25.0	27	23.172	21.795	1.00	25.62	A
ATOM	596		GLU			25.5		23.030	23.916		27.39	A
ATOM	597	С	GLU			29.8		22.762	20.793		12.78	A
ATOM	598	0	GLU			30.4		22.325	21.762		13.68	A
ATOM	599	N	ARG			29.7		22.099	19.650		11.89	A
ATOM	600	CA	ARG			30.3		20.798	19.454		11.86	A
ATOM ATOM	601 602	CB CG	ARG ARG			30.0 30.9		20.329 19.176	18.026 17.542		10.78	A
ATOM	603		ARG			30.9		19.176	16.070		11.79 12.75	A.
ATOM	604		ARG			31.4		17.900	15.497		14.37.	A A
ATOM	605		ARG			31.5		17.681	14.193		13.51	A
ATOM	606	NH1				30.9		18.440	13.337.		13.86	A
ATOM	607	NH2				32.3		16.708	13.746		13.82	A

ATOM	608	С	ARG A	177	31.869	20.852	19.701	1.00 12.81	Α
ATOM	609	0	ARG A		32.447	19.941	20.297	1.00 11.57	A
ATOM	610	N	TYR A	178	32.510	21.924	19.243	1.00 12.95	A
ATOM	611	CA	TYR A	178	33.952	22.068	19.406	1.00 12.76	A
ATOM	612	СВ	TYR A	178	34.540	22.714	18.146	1.00 13.24	A
ATOM	613	CG	TYR A	178	34.686	21.722	17.018	1.00 12.79	A
ATOM	614		TYR A		35.763	20.834	16.987	1.00 12.88	A
ATOM	615		TYR A		35.890	19.891	15.971	1.00 14.50	Α
MOTA	616	CD2	TYR A		33.736	21.642	16.002	1.00 12.10	А
ATOM	617		TYR A		33.853	20.700	14.980	1.00 13.48	A
ATOM	618	CZ	TYR A		34.933	19.831	14.972	1.00 13.02	A
ATOM	619	ОН	TYR A	178	35.066	18.902	13.966	1.00 16.93	A
ATOM	620	С	TYR A	178	34.387	22.826	20.657	1.00 13.57	A
ATOM	621	0	TYR A	178	35.571	23.115	20.837	1.00 14.22	A
ATOM	622	N	GLY A	179	33.427	23.140	21.522	1.00 14.01	A
ATOM	623	CA	GLY A	179	33.742	23.841	22.755	1.00 14.86	A
ATOM	624	С	GLY A	179	34.238	25.260	22.561	1.00 15.37	A
ATOM	625	0	GLY A	179 ·	35.016	25.769	23.368	1.00 16.81	A
ATOM	626	N	LEU A	180	33.788	25.903	21.491	1.00 14.92	Α
ATOM	627	CA	LEU A	180	34.182	27.276	21.208	1.00 15.19	A
ATOM	628	СВ	LEU A	180	34.468	27.447	19.719	1.00 16.63	A
ATOM	629	CG	LEU A	180	35.636	26.648	19.147	1.00 15.00	A
ATOM	630	CD1	LEU A	180 .	35.705	26.872	17.641	1.00 17.63	Α.
ATOM	631	CD2	LEU A	180	36.931	27.079	19.815	1.00 19.25	Α
ATOM	632	С	LEU A	180	33.066	28.229	21.611	1.00 16.56	Α
ATOM	633	0	LEU A	180	31.897	27.842	21.669	1.00 17.28	A
ATOM	634	N	SER A	181	33.434	29.475	21.891	1.00 16.35	A
ATOM	635	CA	SER A	181	32.463	30.497	22.261	1.00 16.39	A
ATOM	636	CB	SER A	181	33.177	31.792	22.647	1.00 17.27	A
ATOM	637	OG	SER A	181	32.259	32.871	22.715	1.00 18.74	A
MOTA	638	С	SER A	181	31.556	30.764	21.067	1.00 16.14	Α
ATOM	639	0	SER A	181.	32.029	31.173	20.009	1.00 15.41	A
ATOM	640	N	GLY A	182	30.258	30.534	21.240	1.00 15.64	A
ATOM	641	CA	GLY A	182	29.320	30.759	20.156	1.00 14.80	A
ATOM	642	С	GLY A	182	29.312	32.209	19.708	1.00 14.74	A
ATOM	643	0	GLY A	182	29.257	32.502	18.508	1.00 14.19	A
MOTA	644	N	SER A	183	29.377	33.124	20.673	1.00 16.05	A
MOTA	645	CA	SER A		29.377	34.549	20.365	1.00 17.71	A
ATOM	646	CB	SER A		29.274	35.374	21.654	1.00 17.19	Α
ATOM	647	OG	SER A		30.314	35.052	22.557	1.00 21.78	A
ATOM	648	С	SER A		30.626	34.942	19.579	1.00 16.35	A
ATOM	649	0	SER A		30.534	35.682	18.595	1.00 16.95	A
ATOM	650	N	ASP A		31.789	34.453	20.006	1.00 15.79	A
ATOM	651	CA	ASP A		33.028		19.297	1.00 15.34	A
ATOM	652	СВ	ASP A		34.243	34.153	20.009	1.00 17.96	A
MOTA	653	CG	ASP A		34.646	34.928	21.244	1.00 21.29	A
ATOM	654		ASP A		34.198	36.082	21.401	1.00 22,54	A
ATOM	655		ASP A		35.430	34.384	22.050	1.00 24.60	A A
ATOM	656	C	ASP A		32.966	34.183		1.00 14.57	A
ATOM	657	0	ASP A		33.351	34.847	16.923 17.762	1.00 14.55	· A
ATOM	658	N	VAL A		32.485	32.948	16.451	1.00 12.00	A
ATOM	659	CA	VAL A		32.393	32.309	16.451	1.00 10.30	A
MOTA	660	CB	VAL A		31.812 31.437	30.875 30.336	15.178	1.00 10.19	. A
MOTA	661		VAL A		32.854	29.957	17.206	1.00 11.37	A
ATOM	662		VAL A				15.483	1.00 10.62	A
ATOM	663	C	VAL A	•	31.552	33.139 33.347	14.336	1.00 10.02	A
ATOM	664	0	VAL A		31.947 30.406	33.633	15.937	1.00 11.61	A
ATOM ATOM	665 666	N CA	LEU A		29.568	34.441	15.056	1.00 12.75	Ā
	666 667	CB	LEU A		28.206	34.719	15.698	1.00 13.84	A
ATOM ATOM	668	CG	LEU A		27.315	33.502	15.965	1.00 15.35	A
MOTA	669		LEU A		25.951	33.981	16.429	1.00 17.79	A
ATOM	670		LEU A		27.170	32.663	14.709	1.00 16.34	A
ATOM	671	C	LEU A		30.246	35.761	14.698	1.00 12.81	A
ATOM	672	o	LEU A		30.136	36.235	13.565	1.00 13.44	A
MOTA	673	N	ASP A		30.938	36.362	15.659	1.00 12.21	A
ATOM	674	CA	ASP A		31.619	37.627	15.394	1.00 14.99	A
MOTA	675	СВ	ASP A		32.163	38.255	16.678	1.00 16.78	A
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31.074 38.721 17.619 1.00 20.35 A ATOM 676 CG ASP A 187 29.988 39.116 17.147 1.00 21.97 ATOM 677 OD1 ASP A 187 Α 31.324 38.706 18.843 1.00 25.56 ATOM 678 OD2 ASP A 187 679 **ASP A 187** 32.791 37.436 14.440 1.00 15.26 ATOM C 38.400 13.830 1.00 15.23 680 0 **ASP A 187** 33.259 **ATOM** 681 **ASN A 188** 33.270 36.200 14.322 1.00 13.87 N ATOM 682 CA **ASN A 188** 34.403 35.905 13.450 1.00 14.14 MOTA 35.368 34.942 14.135 1.00 14.82 **ASN A 188** ATOM 683 CB ASN A 188 36.110 35.587 15.281 1.00 18.85 ATOM 684 CG 36.744 15.195 1.00 20.12 OD1 ASN A 188 36.520 Α 685 MOTA ATOM 686 ND2 ASN A 188 36.306 34.836 16.357 1.00 21.10 Α 1.00 13.53 35.359 12.072 34.050 MOTA 687 C **ASN A 188** Α 688 0 **ASN A 188** 34.929 34.904 11.343 1.00 13.36 MOTA 35.367 11.727 1.00 12.06 VAL A 189 32.769 MOTA 689 N Δ 690 CA VAL A 189 32.357 34.924 10.402 1.00 10.87 Α ATOM 33.779 9.92 31.309 10.446 1.00 MOTA 691 CB VAL A 189 . A 33.443 9.91 ATOM 692 CG1 VAL A 189 30.851 9.026 1.00 31.913 32.537 11.092 1.00 10.65 MOTA 693 CG2 VAL A 189 Α 36.135 9.725 ATOM 694 С VAL A 189 31.726 1.00 13.11 Α 36.642 10.187 1.00 14.95 ATOM 695 0 **VAL A 189** 30.705 А ATOM 696 N ALA A 190 32.352 36.614 8.653 1.00 11.72 Α 1.00 11.20 697 ALA A 190 31.825 37.753 7.905 MOTA CA 38.597 СB 32.961 7.353 1.00 10.95 ATOM 698 ALA A 190 А ATOM 699 С ALA A 190 30.992 37.170 6.773 1.00 11.60 31.458 36.303 1.00 12.58 700 ALA A 190 6.032 ATOM 0 Α 29.765 37.658 6.643 1.00 9.10 ATOM 701 N TYR A 191 -6.643 1.00 9.10 5.646 1.00 11.15 28.829 37.157 ATOM 702 CA TYR A 191 36.493 6.377 1.00 14.31 ATOM 703 CB TYR A 191 27.653 Α 26.381 36.329 ATOM 704 CG TYR A 191 5.573 1.00 16.33 Α 35.384 4.550 ATOM 705 CD1 TYR A 191 26.292 1.00 18.03 ATOM 706 CE1 TYR A 191 25.116 35.219 3.819 1.00 21.10 Α 37.110 MOTA 707 CD2 TYR A 191 25.259 5.846 1.00 19.21 Α 36.955 1.00 21.77 ATOM 708 CE2 TYR A 191 24.077 5.120 4.110 ATOM 709 CZ TYR A 191 24.012 36.007 1.00 22.07 А ATOM 710 ОН TYR A 191 22.842 35.844 3.399 1.00 24.46 38.219 TYR A 191 28.296 4.701 1.00 9.98 ATOM 711 C Α MOTA 712 TYR A 191 28.083 39.363 5.091 1.00 10.36 0 Α ALA A 192 28.085 37.823 ATOM 713 N 3.452 1.00 9.94 Α 714 ALA A 192 27.527 38.718 ATOM CA 2.452 1.00 10.77 A 715 СВ ATOM ALA A 192 28.635 39.455 1.709 1.00 11.74 Α 716 ALA A 192 37.881 ATOM С 26.725 1.478 1.00 12.63 Α 36.735 ALA A 192 717 27.075 1.204 1.00 13.05 ATOM 0 Α .974 ATOM 718 N ARG A 193 25.630 38.432 1.00 14.15 Α ARG A 193 37.701 ATOM 719 CA 24.857 -.013 1.00 16.28 .372 1.00 18.72 MOTA 720 CB ARG A 193 23.381 37.591 Α ARG A 193 ATOM 721 CG 22.590 36.823 -.680 1.00 18.20 Α -.216 1.00 21.34 MOTA 722 CD ARG A 193 21.215 36.423 A ATOM 723 ΝE ARĠ A 193 20.500 35.721 -1.275 1.00 20.08 Α MOTA 724 CZ ARG A 193 19.286 35.204 -1.138 1.00 21.29 Α **ATOM** 725 NHl ARG A 193 18.647 35.307 .022 1.00 22.51 Α ATOM 726 NH2 ARG A 193 18.709 34.591 -2.161 1.00 20.69 Α ATOM 727 С ARG A 193 24.997 38.467 -1.314 1.00 15.74 Α ARG A 193 ATOM 728 39.650 0 24.666 -1.380 1.00 17.52 **ATOM** 729 ALA A 194 37.798 N 25.518 -2.339 1.00 13.91 Δ ATOM 730 CA ALA A 194 25.706 38.422 -3.641 1.00 15.22 Α ATOM 731 СВ ALA A 194 26.674 37.593 -4.482 1,00 13.64 Α ATOM 732 С ALA A 194 24.353 38.530 -4.333 1.00 15.34 Α ATOM 733 0 ALA A 194 23.612 37.550 -4.424 1.00 15.21 Α PHE A 195 ATOM 734 1.00 16.95 N 24.040 39.730 -4.811 Α ATOM 735 CA PHE A 195 22.770 39.999 -5.478 1.00 19.87 Α ATOM 736 CB PHE A 195 22.384 41.466 -5.268 1.00 19.91 Α 41.761 ATOM 737 CG PHE A 195 21.846 -3.894 1.00 22.04 A **ATOM** 738 CD1 PHE A 195 22.553 41.386 -2.757 1.00 24.87 Α 20.625 -3.737 **ATOM** 739 CD2 PHE A 195 42.407 1.00 22.22 A ATOM 740 CE1 PHE A 195 22.051 41.648 -1.481 1.00 25.60 Α ATOM 741 CE2 PHE A 195 20.114 42.674 -2.466 1.00 22.41 20.829 MOTA 742 CZ PHE A 195 42.293 -1.337 1.00 24.45 Α -6.967 1.00 19.68 MOTA 743 С PHE A 195 22.789 39.670

ATOM	744	0	PHI	E 2	A 195	21.	758	39.3	329	~7.	550	1.0	0 21	. 50		Α
ATOM	745	N	ASI	1 1	A 196	23.	963	39.7		-7.	577		0 17			Α
ATOM	746	CA	ASI	1 2	A 196	24.	129	39.4	185	-8.	996	1.0	0 18	.09		Α
ATOM	747	СВ	ASI	1	A 196	23.	633	40.6	558	-9.	848	1.0	0 18	1.40		Α
MOTA	748	CG	ASI	1 2	A 196	24.	312	41.9	64	-9.	495	1.0	0 19	.85		Α
ATOM	749	OD1	AS	1 1	A 196	25.	514	42.1	24	-9.	689	1.0	0 20	. 52		Α
MOTA	750	ND2	ASI	1 2	196	23.	540	42.9	10	-8.	966	1.0	0 22	.23		Α
ATOM	751	С	ASt	1 1	196	25.		39.2	18	-9.	253	1.0	0 16	. 35		Α
ATOM	752	0	AS	1 1	196	26.		39.3	344	-8.	344		0 14			A
MOTA	753	N			A 197	25.				-10.			0 17			A
ATOM	754	CA			1 197	27.				-10.			0 16			A
MOTA	755	СВ			1 197	27.				-12.			0 17			A
MOTA	756				197	26.				-13.			0 20			Α
ATOM	757				197	26.			-	-12.			0 18			A
ATOM	758 759	C O			A 197 A 197	28. 29.				-10.			0 16 0 13			A A
ATOM ATOM	760	N			198	27.				-10.			0 16			A
ATOM ·	761	CA			198	28.				-10.		1.0				A
ATOM	762	СВ			198	28.0				-11.			0 22			A
ATOM	763	CG			198	28.				-12.			0 26			A
ATOM	764				198	28.		. 42.8					0 29			A
MOTA	765				198	27.3		44.2	35	-13.	341		0 31			Α
ATOM	766	С	ASE	P F	198	29.0	050	42.2	84	-9.	259	1.0	0 17	. 2.9		Α
ATOM	767	0	ASE	P #	198	30.3	197	42.5	23	-8.	874	1.0	0 17	.00		Α
MOTA	768	N	HIS	P	199	28.0	014	42.1	65	-8.	432	1.0	0 15	.89		Α
ATOM	769	CA			199	28.3	163	42.3	10	-6.	989	1.0	0 14	.74		Α
MOTA	770	CB			199	- 26.8		42.2			296		0 14			Α
ATOM	771	CG			199	26.8		42.4			818		0 13			A
ATOM .	772				199	27.6		43.2			075			.84		A
ATOM	773				199	26.0		41.8		-3.			0 14			A
ATOM ATOM	774 775				. 199 . 199	26.2 27.2		42.2 43.0		-2. -2.			0 13 0 14			A A
ATOM	776	C.			199	29.0		41.2		-6.			13			A
ATOM	777	o.			199	29.9		41.4		-5.			12			A
ATOM	778	N			200	28.9		40.0		-6.			13			A
ATOM	779	CA			200	29.7		38.8		-6.			12			A
ATOM	780	CB			200	29.3		37.6		-7.			12			A
ATOM	781	CG	GLN	A	200	30.0	26	36.3	52	-7.	013	1.00	13	. 47		Α
MOTA	782	CD	GLN	Α	200	29.5	66	35.1		-7.1	848	1.00	13	.16		Α
ATOM	783				200	28.3	75	35.02	28	-8.	125	1.00	15	. 14		Ä
ATOM	784				200	30.5		34.32		8.		1.00				Α
ATOM	785	C			200	31.1		39.1		-6.		1.00				Α
ATOM	786	0			200	31.9		38.83		-5.1		1.00				A
ATOM ATOM	787	N			201	31.5		39.70		-7.8		1.00				A
ATOM	788 789	CA CB			201	32.9		40.10		-8.0		1.00				A
ATOM	790				201	33.1 33.2		40.40		-9.5		1.00				A
ATOM	791				201	34.4		41.15		-10 -9.8		1.00				A n
ATOM	792	C			201	33.3		41.31		-7.2		1.00				A A
ATOM	793	o			201	34.4		41.35		-6.7		1.00				A
ATOM	794	N	GLN	Α	202 -	32.4	85	42.28		-7.0		1.00				A
ATOM	795	CA	GLN	Α	202	32.8		43.47	77	-6.3		1.00				A
ATOM	796	CB	GLN	Α	202	31.6	39	44.47	75	-6.3	360	1.00	17.	.53		Α
ATOM	797	CG	GLN	Α	202	32.0		45.87	75	-5.8	399	1.00	25.	23		Α
ATOM	798	CD			202	32.2		45.97		-4.4		1.00	28.	15		A
ATOM	799	OE 1				33.0		46.73		-3.9		1.00				A
ATOM	800	NE2				31.4		45.19		-3.6		1.00				A
ATOM ATOM	801	С			202	33.1		43.11		-4.8		1.00				A
ATOM	802 803	O N			202 203	33.9 32.4		43.74		-4.2		1.00				A
ATOM	804	CA			203	32.4		41.65		-4.3 -2.9		1.00				A N
ATOM	805		LEU					40.51		-2.5		1.00				A A
ATOM	806	CG	LEU			30.2		40.95		-2.3		1.00				A
ATOM	807	CD1				29.3		39.73		-2.2		1.00				A
MOTA	808	CD2				30.20		41.72		-1.0		1.00				A
MOTA	809	С	LEU	Α	203	34.1		41.21		-2.7		1.00				A
MOTA	810		LEU			34.60		41.28		-1.5		1.00	11.	56		A
ATOM	811	N	LEU	A	204	34.80)1	40.76	8	-3.7	67	1.00	11.	31	i	A

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ATOM	812	C.F	LEU A 204	36.185	5 40.339	-3.611	1.00 11.87	A
ATOM	813			36.672				
								A
ATOM	814			. 35.97				A
ATOM	815	CE)1 LEU A 204	36.75	37.566	-6.269	1.00 12.14	A
ATOM	816	CD	2 LEU A 204	35.920	37.417	-3.913	1.00 12.53	A
ATOM	817	С	LEU A 204	37.109		-3.294		A
ATOM	818		LEU A 204	38.158				
						-2.679		A
. ATOM	819		TYR A 205	36.730		-3.724		A
MOTA	820	CA	TYR A 205	37.544	43.883	-3.425	1.00 16.07	Α
ATOM	821	CB	TYR A 205	37.097	45.073	-4.274	1.00 19.68	A
ATOM	822			37.769		-5.621		
								A
MOTA	823		1 TYR A 205	39.088		-5.752		A
ATOM	824		1 TYR A 205	39.742	45.482	-6.977	1.00 28.42	A
ATOM	825	CD	2 TYR A 205	37.114	44.616	-6.755	1.00 24.97	A.
ATOM	826	CE	2 TYR A 205	37.760	44.569	-7.989		A.
ATOM	827	CZ		39.073		-8.091		
								A
ATOM	828	ОН				-9.304		A
ATOM.	829	С	TYR A 205	37.415	44.192	-1.940	1.00 15.39	Α
ATOM	830	0	TYR A 205	38.408	44.484	-1.268	1.00 14.26	А
ATOM	831	N	GLN A 206	36.191		-1.426		A
ATOM	832		•					
	•	CA		35.957		007		A
ATOM	833	CB		34.459	44.298	. 310	1.00 16.50	A
ATOM	834	CG	GLN A 206	33.621	45.297	469	1.00 21.42	A
MOTA	835	CD	GLN A 206	32.151	45.230	103	1.00 24.13	А
ATOM	836		1 GLN A 206	31.282		975	1.00 26.96	A
ATOM	837							
			2 GLN A 206	31.863		1.193	1.00 26.12	A
ATOM	838	С	GLN A 206	36.682	43.262	.768	1.00 11.99	A
ATOM	839	0	GLN A 206	37.325	43.520	1.784	1.00 13.05	A
ATOM	840	N	ALA A 207	36.577	42.033	.276	1.00 11.37	A
ATOM	841	CA	ALA A 207	37.224	40.901	.924	1.00 9.55	
ATOM								A
	842	СВ	ALA A 207	36.981	39.630	.112	1.00 11.15	A
ATOM	843	С	ALA A 207	38.726	41.137	1.086	1.00 9.68	A
ATOM	844	0	ALA A 207	39.286	40.901	2.154	1.00 10.32	Α
ATOM	845	N	SER 208	39.370	41.607	.021	.50 8.91	AC1
ATOM	846	CA	SER 208	40.809	41.855	.055	.50 8.84	
ATOM	847							AC1
		СВ	SER 208	41.319	42.271	-1.332	.50 8.15	AC1
ATOM	848	OG	SER 208	40.748	43.489	-1.778	.50 5.66	AC1
ATOM	849	C.	SER 208	41.180	42.910	1.091	.50 8.91	AC1
ATOM	850	0	SER 208	42.186	42.773	1.787	.50 9.06	AC1
ATOM	851	N	ALA A 209	40.364	43.955	1.198		
ATOM	852	CA						A
			ALA A 209	40.613	45.020	2.163	1.00 10.03	A
ATOM	853	СВ	ALA A 209	39.631	46.163	1.940	1.00 11.01	A
ATOM	854	С	ALA A 209	40.474	44.466	3.581	1.00 12.23	A
ATOM	855	0	ALA A 209	41.252	44.796	4.474	1.00 13.45	A
ATOM	856	N	MSE A 210	39.483	43.608	3.782	1.00 11.13	
ATOM	857	CA	MSE A 210					A
				39.263	43.015	5.093	1.00 11.31	A
ATOM	858	СВ	MSE A 210	37.939	42.245	5.087	1.00 11.10	A
MOTA	859	CG	MSE A 210	36.738	43.163	4.929	1.00 12.90	· A
ATOM	860	SE	MSE A 210	35.166	42.285	4.275	1.00 19.56	Ä
ATOM	861	CE	MSE A 210	34.748	41.258	5.846	1.00 18.08	
ATOM	862							A
		С	MSE A 210	40.416	42.100	5.502	1.00 10.40	A
ATOM	863	0	MSE A 210	40.816	42.075	6.667	1.00 11.49	A
ATOM	864	N	MSE A 211	40.959	41.361	4.538	1.00 9.79	A
ATOM	865	CA	MSE A 211	42.054	40.442	4.809	1.00 9.90	A
ATOM	866	СВ	MSE A 211	42.246	39.502	3.622	1.00 11.35	
ATOM								A
	867	CG	MSE A 211	41.034	38.605	3.419	1.00 13.28	A
ATOM	868	SE	MSE A 211	41.249	37.350	1.970	1.00 19.97	A
ATOM	869	CE	MSE A 211	39.669	36.267	2.266	1.00 17.37	A
ATOM	870	C	MSE A 211	43.354	41.161	5.150	1.00 12.40	A
ATOM	871	ō	MSE A 211	44.254	40.576	5.751		
ATOM	872						1.00 12.31	A
		N	VAL A 212	43.448	42.429	4.771	1.00 13.63	А
ATOM	873	CA	VAL A 212	44.633	43.219	5.092	1.00 16.42	A
ATOM	874	СВ	VAL A 212	44.710	44.499	4.215	1.00 16.91	. A
ATOM	875	CG1	VAL A 212	45.666	45.507	4.837	1.00 20.67	A
ATOM	876		VAL A 212	45.179	44.141	2.815		
ATOM		C					1.00 16.11	A
			VAL A 212	44.566	43.633	6.565	1.00 18.07	A
ATOM	878	0	VAL A 212	45.587	43.696	7.256	1.00 20.15	Α
ATOM	879	N	GLU A 213	43.351	43.890	7.039	1.00 17.71	A
								• • • • • • • • • • • • • • • • • • • •

ATOM	880 CA GLU A 213	43.111 44.333 8.412 1.00 19.16	A
ATOM	881 CB GLU A 213	41.801 45.127 8.470 1.00 21.15	
ATOM	882 CG GLU A 213	41.862 46.502 7.823 1.00 24.58	
MOTA	883 CD GLU A 213	40.552 47.263 7.955 1.00 28.91	
ATOM	884 OE1 GLU A 213	39.820 47.024 8.940 1.00 29.96	
ATOM	885 OE2 GLU A 213	40.257 48.111 7.085 1.00 30.33	
MOTA	886 C GLU A 213	43.076 43.256 9.498 1.00 19.63	
ATOM	887 O GLU A 213	43.546 43.486 10.614 1.00 18.83	A
MOTA	888 N SER A 214	42.509 42.093 9.184 1.00 18.76	A
ATOM	889 CA SER A 214	42.399 41.004 10.159 1.00 18.30	. А
ATOM	890 CB SER A 214	40.945 40.857 10.626 1.00 20.42	A
ATOM	891 OG SER A 214	40.397 42.099 11.016 1.00 25.34	A
ATOM	892 C SER A 214	42.839 39.686 9.546 1.00 17.21	A
ATOM	893 O SER A 214	42.840 39.540 8.324 1.00 15.90	A
ATOM	894 N ARG A 215	43.190 38.719 10.391 1.00 16.03	Α
ATOM	895 CA ARG A 215	43.612 37.419 9.891 1.00 14.50	Α
ATOM	896 CB ARG A 215	44.521 36.686 10.885 1.00 17.55	Α
ATOM	897 CG ARG A 215	44.837 35.257 10.414 1.00 20.04	A
ATOM	898 CD ARG A 215	45.692 34.456 11.384 1.00 25.67	A
ATOM	899 NE ARG A 215	45.705 33.035 11.032 1.00 28.44	A
. ATOM	900 CZ ARG A 215	46.186 32.539 9.894 1.00 32.44	A
ATOM	901 NH1 ARG A 215	46.710 33.342 8.977 1.00 33.60	A
MOTA	902 NH2 ARG A 215	46.132 31.232 9.664 1.00 33.47	A
ATOM	903 C ARG A 215	42.444 36.502 9.568 1.00 13.33	A
ATOM	904 O ARG A 215	41.666 36.124 10.448 1.00 14.15	A
ATOM	905 N TYR A 216	42.337 36.148 8.294 1.00 12.11	A
ATOM ATOM	906 CA TYR A 216 907 CB TYR A 216	41.309 35.235 7.826 1.00 10.66	, A
ATOM	,	40.597 35.796 6.600 1.00 11.82	A
ATOM	908 CG TYR A 216	39.502 36.761 6.941 1.00 11.74	A
ATOM	909 CD1 TYR A 216	39.789 38.074 7.311 1.00 13.91	A
ATOM	910 CE1 TYR A 216 911 CD2 TYR A 216	38.773 38.950 7.670 1.00 14.14	A
ATOM		38.172 36.348 6.939 1.00 13.07	A
ATOM	· · · · · · · · · · · · · · · · · · ·	37.157 37.209 7.296 1.00 13.62	A
ATOM		37.459 38.506 7.661 1.00 15.01	A
ATOM		36.434 39.349 8.016 1.00 17.98	Α
ATOM		41.996 33.942 7.435 1.00 10.55	A
ATOM		43.151 33.952 7.012 1.00 11.94	A
ATOM		41.288 32.829 7.572 1.00 8.82	A,
ATOM	918 CA ALA A 217 919 CB ALA A 217	41.849 31.538 7.200 1.00 8.08	A
ATOM	920 C ALA A 217	41.849 30.599 8.403 1.00 10.40	A
ATOM	921 O ALA A 217	41.023 30.927 6.082 1.00 8.74	A
ATOM	922 N LEU A 218	41.492 30.030 5.380 1.00 9.17	A
ATOM	923 CA LEU A 218	39.811 31.440 5.889 1.00 8.26	A
ATOM	924 CB LEU A 218	38.913 30.856 4.897 1.00 9.02 38.089 29.765 5.593 1.00 9.51	A
ATOM	925 CG LEU A 218		A
ATOM	926 CD1 LEU A 218	1,00 10.01	A
ATOM	927 CD2 LEU A 218	2.00 22.00	A
ATOM	928 C LEU A 218		A
ATOM	929 O LEU A 218		A
ATOM	930 N LEU A 219	37.368 32.697 4.794 1.00 8.43 37.778 31.571 2.885 1.00 8.37	A
ATOM	931 CA LEU A 219	36.821 32.322 2.078 1.00 7.10	A
ATOM	932 CB LEU A 219	37.507 33.171 1.000 1.00 9.27	A
ATOM	933 CG LEU A 219	36.542 33.707075 1.00 10.99	A
ATOM	934 CD1 LEU A 219	35.445 34.564 .560 1.00 13.35	A
ATOM	935 CD2 LEU A 219	37.322 34.518 -1.101 1.00 12.85	A
ATOM	936 C LEU A 219	35.929 31.294 1.395 1.00 7.22	A
ATOM	937 O LEU A 219	36.412 30.419 .668 1.00 7.85	A A
ATOM	938 N ILE 220	34.627 31.412 1.626 .50 6.12	AC1
ATOM	939 CA ILE 220	33.644 30.508 1.045 .50 5.48	AC1
ATOM	940 CB ILE 220	32.706 29.953 2.131 .50 5.16	AC1
ATOM	941 CG2 ILE 220	31.606 29.110 1.492 .50 5.91	AC1
ATOM	942 CG1 ILE 220	33.509 29.143 3.150 .50 4.87	AC1
ATOM	943 CD1 ILE 220	32.776 28.924 4.455 .50 2.48	AC1
ATOM	944 C ILE 220	32.785 31.247 .029 .50 5.49	AC1
ATOM	945 O ILE 220	32.343 32.369 .281 .50 5.14	AC1
ATOM	946 N VAL A 221	32.555 30.616 -1.118 1.00 6.21	A
ATOM	947 CA VAL A 221	31.713 31.202 -2.158 1.00 6.05	A
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ATOM	948	CB VAL A 221	32.479	31.630 -3.418	1.00 8.43	A
ATOM	949	CG1 VAL A 221	31.489	32.232 -4.424	1.00 11.56	A
ATOM	950	CG2 VAL A 221	33.545	32.652 -3.065	1.00 9.56	A
MOTA	951	C VAL A 221	30.747	30.083 -2.525	1.00 9.19	A
ATOM	952	O VAL A 221	31.097	29.156 -3.257	1.00 9.66	A
ATOM	953	N ASP A 222	29.530	30.182 -2.001	1.00 8.99	A
ATOM	954	CA ASP A 222	28.488	29.178 -2.208	1.00 10.19	A
ATOM	955	CB ASP A 222	28.237	28.482859	1.00 12.30	A
ATOM	956	CG ASP A 222	27.093	27.492899	1.00 13.65	A
ATOM	957	OD1 ASP A 222	26.893	26.851 -1.945	1.00 14.21	A
ATOM	958	OD2 ASP A 222	26.407	27.343 .138	1.00 17.00	A
ATOM	959	C ASP A 222	27.218	29.870 -2.712	1.00 10.73	A
ATOM	960	O ASP A 222	26.485 26.926	30.447 -1.914	1.00 11.04 1.00 11.76	A A
ATOM ATOM	961	N SER A 223 CA SER A 223	27.693	29.815 -4.014 29.127 -5.053	1.00 11.76	A
	962 963	CB SER A 223	26.717	28.320 -5.922	1.00 11.33	A
ATOM ATOM	964	OG SER A 223	27.250	28.040 -7.204		A
ATOM	965	C SER A 223	28.470	30.107 -5.937	1.00 12.18	A
ATOM	966	O SER A 223	28.063	31.256 -6.113	1.00 12.29	A
ATOM	967	N ALA A 224	29.578	29.649 -6.509	1.00 11.55	A
ATOM	968	CA ALA A 224	30.389	30.505 -7.365	1.00 12.08	A
ATOM	969	CB ALA A 224	31.815	29.960 -7.447	1.00 12.08	A
ATOM		C ALA A 224	29.812	30.646 -8.771	1.00 12.99	A
ATOM	971	O ALA A 224	30.159	-31.578 -9.495	1.00 13.90	. A
ATOM	972	N THR A 225	28.916	29.741 -9.150	1.00 14.01	A
MOTA	973	CA THR A 225	28.355	29.777 -10.497	1.00 15.06	Α
ATOM	974	CB THR A 225	28.715	28.492 -11.251	1.00 15.67	Α
ATOM	975	OG1 THR A 225	28.169	27.367 -10.550	1.00 18.32	A
ATOM	976	CG2 THR A 225	30.227	28.341 -11.350	1.00 17.70	. A
ATOM	977	C THR A 225	26.844	29.966 -10.621	1.00 16.24	A
ATOM	978	O THR A 225	26.353	30.310 -11.696	1.00 16.22	A
MOTA	979	N ALA A 226	26.111	29.742 -9.536	1.00 15.40	A
ATOM	980	CA ALA A 226	24.655	29.863 -9.569	1.00 17.16	A
ATOM	981	CB ALA A 226	24.087	29.724 -8.157	1.00 17.20	A
ATOM	982	C ALA A 226	24.121	31.139 -10.218 31.080 -11.050	1.00 18.1 <u>1</u> 1.00 19.76	A A
ATOM ATOM	983 984	O ALA A 226 N LEU A 227	23.215 24.677	32.289 -9.849	1.00 17.52	A
ATOM	985	CA LEU A 227	24.207	33.558 -10.396	1.00 17.32	A
ATOM	986	CB LEU A 227	24.802	34.726 -9.603	1.00 17.50	A
ATOM	987	CG LEU A 227	24.397	34.787 -8.123	1.00 18.20	A
ATOM	988	CD1 LEU A 227	24.978	36.043 -7.489	1.00 19.48	A
ATOM	989	CD2 LEU A 227	22.876	34.783 -7.992	1.00 21.19	A
MOTA	990	C LEU A 227	24.481	33.740 -11.890	1.00 18.80	A
ATOM	991	O LEU A 227	23.895	34.616 -12.530	1.00 18.94	Α
MOTA	992	N TYR A 228	25.360	32.911 -12.443	1.00 18.50	Α
MOTA	993	CA TYR A 228	25.693	32.986 -13.863	1.00 21.58	Α
ATOM	. 994	CB TYR A 228	27.107	32.450 ~14.099	1.00 17.41	A
ATOM	995	CG TYR A 228	28.196	33.411 ~13.689	1.00 14.92	Α
MOTA	996	CD1 TYR A 228	28.626	34.417 -14.554	1.00 12.76	A
ATOM	997	CE1 TYR A 228	29.620	35.314 -14.179	1.00 13.80	A
ATOM	998	CD2 TYR A 228	28.789	33.328 -12.430	1.00 13.04	A
ATOM	999	CE2 TYR A 228	29.785	34.224 -12.044	1.00 12.87	A
ATOM ATOM	1000 1001	CZ TYR A 228 OH TYR A 228	30.196 31.182	35.211 -12.920 36.091 -12.551	1.00 12.36 1.00 14.32	A
ATOM	1001	C TYR A 228	24.699	32.205 -14.717	1.00 14.32	A A
ATOM	1003	O TYR A 228	24.694	32.327 -15.942	1.00 23.10	A
ATOM	1004	N ARG A 229	23.857	31.409 -14.066	1.00 28.73	A
ATOM	1005	CA ARG A 229	22.861	30.608 -14.770	1.00 34.06	A
ATOM	1006	CB ARG A 229	22.862	29.173 -14.233	1.00 37.97	A
ATOM	1007	CG ARG A 229	21.948	28.221 -14.994	1.00 45.76	A
ATOM	1008	CD ARG A 229	22.082	26.795 -14.476	1.00 50.57	A
MOTA	1009	NE ARG A 229	21.591	26.658 -13.107	1.00 56.15	A
ATOM	1010	CZ ARG A 229	20.304	26.628 -12.771	1.00 58.13	A
MOTA	1011	NH1 ARG A 229	19.366	26.723 -13.705	1.00 59.34	Α
ATOM	1012	NH2 ARG A 229	19.955	26.504 -11.498	1.00 59.67	A
ATOM	1013	C ARG A 229	21.469	31.210 -14.619	1.00 35.05	A
ATOM	1014	O ARG A 229	21.162	32.242 -15.216	1.00 37.10	A
ATOM	1015	N GLU A 237	26.455	36.730 -25.203	1.00 45.75	A

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GLU A 237 25.871 36.676 -23.870 1.00 45.26 ATOM 1016 CA 24.361 36.455 -23.965 1.00 47.65 GLU A 237 **ATOM** 1017 CB CG GLU A 237 23.661 36.374 -22.618 1.00 51.11 ATOM 1018 37.545 -21.718 1.00 52.82 24.004 MOTA 1019 -CD GLU A 237 23.878 38.701 -22.172 1.00 54.95 24.397 37.309 -20.555 1.00 53.95 1020 OE1 GLU A 237 **ATOM** OE2 GLU A 237 MOTA 1021 26.505 35.558 -23.052 1.00 43.96 GLU A 237 **ATOM** 1022 С GLU A 237 27.098 35.803 -22.001 1.00 43.47 ATOM 1023 0 26.371 34.329 -23.541 1.00 41.51 26.937 33.170 -22.866 1.00 39.97 LEU A 238 ATOM 1024 N ATOM 1025 CA **LEU A 238** 26.619 31.896 -23.650 1.00 41.06 LEU A 238 ATOM 1026 CB 27.342 30.621 -23.203 1.00 42.05 1027 CG LEU A 238 MOTA 27.008 30.309 -21.751 1.00 42.90 **ATOM** 1028 CD1 LEU A 238 26.935 29.469 -24.107 1.00 43.61 28.447 33.318 -22.725 1.00 38.07 1029 · CD2 LEU A 238 ATOM MOTA 1030 С **LEU A 238** 29.005 33.095 -21.651 1.00 36.76 LEU A 238 1031 MOTA Ω 29.105 33.693 -21.051 1.00 36.76 29.105 33.693 -23.818 1.00 35.69 30.552 33.870 -23.813 1.00 33.46 ATOM 1032 SER A 239 SER A 239 30.552 33.870 -23.813 1.00 33.46 31.055 34.167 -25.227 1.00 34.80 1033 CA Α ATOM 1034 SER A 239 ATOM CB SER A 239 30.508 35.377 -25.721 1.00 37.47 MOTA 1035 OG 1036 SER A 239 30.947 35.005 -22.875 1.00 31.86 ATOM С 32.013 34.973 -22.260 1.00 30.28 30.082 36.008 -22.769 1.00 29.26 30.344 37.146 -21.897 1.00 27.57 SER A 239 ATOM 1037 0 1038 ALA A 240 MOTA N ALA A 240 1039 ATOM CA 1040 29.276 38.212 -22.091 1.00 28.86 ATOM CB ALA A 240 30.359 36.676 -20.446 1.00 26.33 31.229 37.065 -19.665 1.00 24.83 29.391 35.837 -20.095 1.00 24.47 ALA A 240 MOTA 1041 С ALA A 240 ATOM 1042 0 Α 1043 MOTA N ARG A 241 Α 27.298 35.308 -18.741 1.00 24.64 27.986 34.545 -18.545 1.00 26.26 26.748 35.415 -18.618 1.00 30.40 25.509 34.636 -18.222 1.00 32.71 24.309 35.459 -18.327 1.00 37.68 23.094 35.063 -17.964 ATOM 1044 CA ARG A 241 MOTA 1045 СВ ARG A 241 MOTA 1046 CG ARG A 241 А ATOM 1047 CD ARG A 241 MOTA 1048 NE ARG A 241 23.094 35.063 -17.964 1.00 40.61 22.910 33.848 -17.465 1.00 42.19 22.061 35.883 -18.104 1.00 41.34 30.467 34.381 -18.436 1.00 23.05 MOTA 1049 ARG A 241 CZ ATOM NH1 ARG A 241 1050 ATOM 1051 NH2 ARG A 241 Α ATOM ARG A 241

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ARG A 249 1052 ARG A 241 С Α ARG A 241 30.986 34.376 -17.321 1.00 21.52 ATOM 1053 Α N MOTA 1054 **ATOM** 1055 CA А MOTA 1056 CB Α MOTA . 1057 CG Α 1058 CD ATOM Α ATOM 1059 OE1 GLN A 242 А MOTA 1060 NE2 GLN A 242 A MOTA 1061 С Α ATOM 1062 Ö А MOTA 1063 N ATOM 1064 CA A ATOM 1065 CB ATOM 1066 CG ATOM 1067 SE ATOM 1068 CE MOTA 1069 C A MOTA 1070 0 Α ATOM 1071 N MOTA 1072 CA ATOM 1073 CB Α MOTA 1074 CG HIS A 244 CD2 HIS A 244 MOTA 1075 MOTA 1076 ND1 HIS A 244 MOTA 1077 CE1 HIS A 244 Α MOTA 1078 NE2 HIS A 244 31.667 1079 MOTA С HIS A 244 33.645 36.141 -15.264 1.00 13.42 36.466 -14.290 1.00 11.85 34.931 -15.400 1.00 12.32 33.894 -14.393 1.00 11.41 MOTA 1080 0 HIS A 244 34.323 MOTA 1081 N **LEU A 245** 33.111 Α MOTA 1082 CA LEU A 245 33.313 32.459 32.664 -14.716 1.00 11.93 MOTA 1083 CB LEU A 245

B2003/004485

ATOM	1084	CG	LEU A	245	32.704	31.410 -1	3.869	1.00	12.45	A
ATOM	1085		LEU F		32.472	31.715 -1			12.44	A
ATOM	1086		LEU P		31.778	30.300 -1			13.60	A
ATOM	1087	c	LEU A		34.790	33.504 -1		1.00	11.45	A
ATOM	1088	ō	LEU A		35.363	33.358 -1		1.00		А
ATOM	1089	N	ALA A		35.411	33.344 -1			11.75	A
ATOM	1090	CA	ALA A		36.822	32.976 -1		1.00		A
ATOM	1091	СВ	ALA A		37.298	32.895 -1			11.67	A
ATOM	1092	C	ALA A		37.655	33.998 -1		1.00		A
ATOM	1093	ŏ	ALA A		38.552	33.638 -1			10.62	A
ATOM	1094	N	ARG A		37.344	35.274 -1		1.00		A
ATOM	1095	CA	ARG A		38.064	36.337 -1		1.00		A
ATOM	1096	СВ	ARG A		37.572	37.702 -1		1.00		А
ATOM	1097	CG	ARG A		38.347	38.868 -1	4.189		25.65	A
ATOM	1098	CD	ARG A		39.732	38.971 -1			32.96	А
ATOM	1099	NE	ARG A		40.475	40.118 -1	4.287	1.00	39.20	. A
ATOM	1100	CZ	ARG A		41.244	40.089 -1	3.204	1.00	41.96	A
ATOM	1101	NH1	ARG A	247	41.387	38.965 -1	2.512	1.00	42.95	Α
ATOM	1102	NH2			41.862	41.192 -1	2.807	1.00	43.69	A
ATOM	1103	С	ARG A		37.841	36.204 -1	2.795	1.00	11.48	A
ATOM	1104	0	ARG A	247	38.779	36.316 -1	2.005	1.00	11.35	A
MOTA	1105	N	PHE A	248	36.591	35.971 -1	2.406	1.00	9.96	Α
ATOM	1106	CA	PHE A	248	36.257	35.809 -1	0.993	1.00	8.76	A
ATOM	1107	СВ	PHE A	248	34.775	35.465 -1	0.831	1.00	8.82	A
MOTA	1108	CG	PHE A	248	34.360	35.228 -	9.402	1.00	8.05	A
ATOM	1109	CD1	PHE A	248	34.228	36.293 -	8.515	1.00	9.83	A
ATOM	1110	CD2	PHE A	248	34.111	33.937 -	8.942	1.00	9.86	A
ATOM	1111	CE1	PHE A	248	33.853	36.076 -	7.186	1.00	8.69	A
ATOM	1112	CE2	PHE A	248	33.735	33.708 -	7.617	. 1.00	9.42	A
ATOM	1113	CZ	PHE A	248	33.607	34.781 -	6.738	1.00	8.27	A
ATOM	1114	С	PHE A	248	37.098	34.698 -1	0.367	1.00	8.86	A
MOTA	1115	0	PHE A	248	37.636	34.861 -	9.274	1.00	9.14	A
MOTA	1116	N	LEU A	249	37.205	33.567 -1		1.00	9.66	A
MOTA	1117	CA	LEU A		37.971	32.435 -10		1.00	9.31	A
ATOM	1118	СВ	LEU A		37.736	31.195 -1		1.00	8.82	A
ATOM	1119	CG	LEU A		36.283	30.708 -11		1.00	13.09	A
ATOM	1120		LEU A		36.127	29.567 -12		1.00	13.38	A
ATOM	1121		LEU A		35.888 39.462	30.265 -9 32.744 -10	9.996	1.00	12.31	A A
ATOM ATOM	1122 1123	.O C	LEU A		40.126		9.505	1.00	9.43	A
ATOM	1124	N	ARG A		39.999	33.536 -13		1.00	9.79	A
ATOM	1125	CA	ARG A		41.410	33.897 -1		1.00	9.23	A
ATOM	1126	СВ	ARG A		41.899	34.549 -12			10.09	A
ATOM	1127	CG	ARG A		41.905	33.591 -13		1.00	10.89	A
ATOM	1128	CD	ARG A		42.923	34.015 -14		1.00	12.35	A
ATOM	1129	NE	ARG A		42.692	35.372 -19	5.318	1.00	14.15	A
ATOM	1130	CZ	ARG A		41.768	35.713 -16	5.213	1.00	12.84	A
ATOM	1131	NH1	ARG A		40.968	34.793 -16	5.744	1.00	12.74	A
ATOM	1132		ARG A		41.642	36.985 -16		1.00	13.32	А
ATOM	1133	С	ARG A		41.617	34.851 -10	0.087	1.00	9.42	A
ATOM	1134	0	ARG A	250	42.674	34.852 -9	.461	1.00	10.80	Α
ATOM	1135	N	MSE A	251	40.603	35.660 -9	786	1.00	8.99	A
ATOM	1136	CA	MSE A	251	40.693	36.585 -8	3.664	1.00	7.90	A
ATOM	1137	CB	MSE A	251	39.503	37.546 -8	655	1.00	10.28	A
ATOM	1138	CG	MSE A	251	39.546	38.555 -9	787	1.00	10.58	A
ATOM	1139	SE	MSE A		37.927		.882		19.52	A
ATOM	1140	CE	MSE A		38.253		3.392	.1.00		A
ATOM	1141	С	MSE A		40.728		.368	.1.00	8.49	Α
ATOM	1142	0	MSE A		41.453		.441	1.00	8.06	A
ATOM	1143	N	LEU A		39.946		.306	1.00	8.09	A
ATOM	1144	CA	LEU A		39.936		109	1.00	8.04	A
ATOM	1145	CB	LEU A		38.891		. 222	1.00	8.32	A
ATOM ATOM	1146 1147	CG CD1	LEU A		37.411 36.544		.168 .288	1.00	8.66 9.22	A A
ATOM	1147		LEU A		37.104		.867	1.00	9.22	A
ATOM	1149	C	LEU A		41.314		.899	1.00	9.42	A
ATOM	1150	ŏ	LEU A		41.800		.771	1.00	9.61	A
ATOM	1151	N	LEU A		41.944		.990	1.00	9.24	A

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ATOM	1152	CA	LEU	J A	253	43.271	32.239	-6.910	1.00 11.62	• А
MOTA	1153				253	43.696				A
ATOM	1154				253	45.049		-8.331		A
ATOM ATOM	1155 1156		F LEU		253	45.023 45.351		-7.394 -9.761		A
ATOM	1157				253	44.276		-6.413		A A
ATOM	1158				253	45.169		-5.627		A
ATOM	1159				254	44.129		-6.871		A
MOTA	1160	CA			254	45.022		-6.450		A
MOTA	1161	CB	ARG	A	254	44.700		-7.219	1.00 15.17	Α
ATOM	1162	CG			254	45.686		-7.004		A
MOTA	1163	CD			254	47.047		-7.645		A
ATOM	1164 1165	NE CZ			254	47.962		-6.746		A
ATOM ATOM	1166		ARG		254	48.623 48.474		-5.751 -5.527		. A
ATOM	1167		ARG			49.434		-4.979		A
ATOM	1168	C			254	44.860		-4.943		A
ATOM	1169	0	ARG	A	254	45.843	36.054	-4.233	1.00 13.42	A
MOTA	1170	N			255	43.623		-4.452		A
ATOM	1171	CA			255	43.383		-3.023		Α
ATOM	1172	CB			255	41.879 41.140		-2.717		A
ATOM ATOM	1173 1174	CG	LEU		255	39.664		-3.105 -2.748		. A
ATOM	1175		LEU				38.479	-2.372	1.00 15.30	A
ATOM	1176	c			255	44.043		-2.226		A
ATOM	1177	0	LEU	Α	255	44.672		-1.197		Α
· ATOM	1178	N			256	43.901		-2.701	1.00 12.67	Α
ATOM	1179	CA			256	44.507		-2.017	1.00 14.15	А
ATOM	1180	СВ			256	44.103		-2.701	1.00 12.71	A
ATOM ATOM	1181 1182	С О			256 256	46.029 46.671	32.614 32.310	-1.996 988	1.00 15.50 1.00 17.69	A A
ATOM	1183	N			257	46.601	33.077	-3.106	1.00 16.20	A
ATOM	1184	CA	ASP	Α	257	48.050	33.266	-3.209	1.00 18.87	A
ATOM	1185	CB			257	48.465	33.654	-4.633	1.00 20.67	A
ATOM	1186	CG			257	48.336	32.520	-5.621	1.00 25.45	A
ATOM ATOM	1187 1188		ASP ASP			48.382	31.348	-5.202	1.00 26.70	A
ATOM	1189	C	ASP			48.210 48.536	32.812 34.380	-6.830 -2.296	1.00 27.63 1.00 18.97	A A
ATOM	1190	ō	ASP			49.505	34.227	-1.552	1.00 19.55	Ā
ATOM	1191	N	GLU	А	258	47.852	35.512	-2.374	1.00 15.45	A
ATOM	1192	CA	GLU			48.214	36.695	-1.613	1.00 15.96	· A
ATOM	1193	CB	GLU			47.364	37.874	-2.090	1.00 15.35	A
ATOM ATOM	1194 1195	CG CD	GLU GLU			47.812 49.205	39.233 39.596	-1.579	1.00 19.78 1.00 21.75	A
ATOM .	1196		GLU			49.551	39.254	-2.052 -3.204	1.00 21.75	A A
ATOM	1197		GLU			49.949	40.232	-1.277	1.00 24.19	A
ATOM	1198	С	GLU			48.098	36.580	100	1.00 15.06	A
ATOM	1199	0	GLU			49.035	36.918	. 627	1.00 14.21	A
ATOM ATOM	1200 1201	N	PHE			46.953	36.092	. 365	1.00 12.81	A
ATOM	1201	CA CB	PHE			46.678 45.275	36.003 36.549	1.794 2.048	1.00 12.40	A
ATOM	1203	CG	PHE			45.103	37.973	1.612	1.00 14.06 1.00 13.57	A A
ATOM	1204		PHE			45.752	39.002	2.290	1.00 15.40	A
ATOM	1205		PHE			44.322	38.288	. 505	1.00 13.21	A
ATOM	1206		PHE			45.625	40.326	1.872	1.00 14.07	Α
ATOM	1207		PHE			44.188	39.610	.078	1.00 13.61	Α
ATOM ATOM	1208 1209	CZ C	PHE			44.842 46.828	40.631 34.642	.763	1.00 15.29	A
ATOM	1210	Õ	PHE			46.724	34.539	2.461 3.684	1.00 13.00 1.00 14.38	A
ATOM	1211	N	GLY			47.068	33.604	1.668	1.00 14.38	A A
ATOM	1212	CA	GLY	A	260	47.242	32.276	2.227	1.00 13.13	A
ATOM	1213		GLY .			45.980	31.705	2.844	1.00 14.85	A
ATOM ATOM	1214 1215		GLY .			46.039	30.916	3.785	1.00 17.57	A
ATOM	1215		VAL .			44.832 43.568	32.120 31.615	2.330 2.843	1.00 12.38 1.00 11.17	A
ATOM	1217		VAL			42.446	32.672	2.766	1.00 11.17	A A
ATOM	1218		VAL			42.764	33.841	3.681	1.00 13.51	A
ATOM	1219	CG2	VAL	Α :	261	42.274	33.140	1.334	1.00 13.33	A

ATO	1220	C VAL A 261	43.11	8 30.429	2.021	1.00 10.55	F
ATO		O VAL A 261	43.52		.871		-
ATO		N ALA A 262	42.28		2.623	_	
ATON	1 1223	CA ALA A 262	41.72		1.911		-
ATON	1 1224	CB ALA A 262	41.29		2.886		A
ATON	1 1225	C ALA A 262	40.50		1.224		A
ATON	1 1226	O ALA A 262	39.75		1.842		A
MOTA	1 1227	N VAL A 263	40.32	2 28.746	053		A
ATOM	1228	CA VAL A 263	39.16	29.236	781		 A
ATOM	1229 (CB VAL A 263	39.563		-2.064	_	A
ATOM		CG1 VAL A 263	38.314	30.359	-2.868		A
ATOM	1231 (CG2 VAL A 263	40.349	31.238	-1.698		A
ATOM	1232 🤉	C VAL A 263	38.330	28.020	-1.150		A
ATOM	1233 (O VAL A 263	38.807	27.124	-1.842		A
ATOM	1234 N	N VAL A 264	37.094	27.984	664	1.00 8.77	A
ATOM		CA VAL A 264	36.196	26.870	933	1.00 8.22	A
ATOM	1236	CB VAL A 264	35.721	26.217	.381	1.00 8.51	A
ATOM		CG1 VAL A 264	34.704	25.114	.082	1.00 10.31	A
ATOM		G2 VAL A 264	36.912		1.148	1.00 9.45	A
ATOM			34.984	27.389	-1.686	1.00 9.72	A
ATOM			34.284	28.280	-1.205	1.00 11.71	A
ATOM		ILE A 265	34.738		-2.868	1.00 10.40	A
ATOM		A ILE A 265	33.600	27.263	-3.660	1.00 10.29	А
MOTA		B ILE A 265	34.047	27.971	-4.957	1.00 10.14	А
MOTA		G2 ILE A 265	35.016	29.101	-4.621	1.00 11.21	A
ATOM		G1 ILE A 265	34.708	26.966	-5.907	1.00 12.27	A
ATOM		D1 ILE A 265	35.143	27.565	-7.238	1.00 13.03	A
ATOM	1247 C	ILE À 265	32.748	26.063	-4.034	1.00 10.17	A
ATOM	1248 O	ILE A 265	33.236	24.935	-4.084	1.00 9.91	A
ATOM	1249 N	THR A 266	31.470	26.305	-4.282	1.00 8.88	· A
ATOM		A THR A 266	30.584	25.225	-4.676	1.00 9.58	A
ATOM	1251 C		29.349	25.134	-3.760	1.00 10.99	. A
TOM	1252 0	G1 THR A 266	28.518	26.287	-3.941	1.00 12.11	A
ATOM		G2 THR A 266	29.785	25.052	-2.301	1.00 12.65	A
MOTA	1254 C	THR A 266	30.161	25.483	-6.112	1.00 11.50	A
ATOM	1255 O	THR A 266	30.132	26.628	-6.565	1.00 12.79	A
ATOM	1256 ห	ASN A 267	29.850	24.410	-6.828	1.00 12.20	A
ATOM	1257 C	A ASN A 267	29.465	24.504	-8.227	1.00 13.60	A
ATOM	1258 C	B ASN A 267	30.686		-9.103	1.00 14.59	A
ATOM	1259 CC		30.539	24.763 -		1.00 17.75	A
ATOM	1260 00	D1 ASN A 267	29.429	24.953 -		1.00 19.43.	A
ATOM	1261 NO	D2 ASN A 267	31.667	25.002 -		1.00 17.66	A
ATOM	1262 C	ASN A 267	28.391		-8.494	1.00 15.70	Ā
ATOM	1263 O	ASN A 267	28.267		-7.738	1.00 15.21	A
ATOM	1264 N	ALA A 293	40.359	24.063 -		1.00 25.75	A
ATOM	1265 CA	ALA A 293	40.748	24.289 -		1.00 26.09	A
ATOM	1266 CB	B ALA A 293	40.228	23.156 -		1.00 26.24	A
ATOM	1267 C		42.263	24.395 -		1.00 26.19	A
MOTA	1268 0	ALA A 293	43.008	23.745 -	13.960	1.00 26.65	A
ATOM	1269 N	HIS A 294	42.712	25.216 -	12.283	1.00 24.21	A
MOTA	1270 CA	HIS A 294	44.140	25.393 -	12.051	1.00 23.37	A
ATOM	1271 CB	HIS A 294	44.377	26.568 -1		1.00 23.08	A
ATOM	1272 CG	HIS A 294	45.820	26.933 -1		1.00 25.13	Ā
ATOM		2 HIS A 294	46.623	27.742 -1		1.00 25.75	A
ATOM		1 HIS A 294	46.605			1.00 24.49	A
ATOM		1 HIS A 294	47.831	26.914 -1		1.00 26.77	
ATOM		2 HIS A 294	47.867	27.712 -1		1.00 26.73	A A
ATOM	1277 C	HIS A 294	44.713	24.110 -1		1.00 21.69	A
ATOM	1278 O	HIS A 294	43.996	23.323 -1		1.00 20.98	A
ATOM	1279 N	ALA A 295	46.006	23.897 -1		1.00 20.58	A
ATOM	1280 CA	ALA A 295	46.677	22.704 -1		1.00 20.25	A
ATOM	1281 CB	ALA A 295	48.154	22.749 -1		1.00 20.07	A
ATOM	1282 C	ALA A 295	46.534			1.00 19.38	A
ATOM	1283 O	ALA A 295	46.484			1.00 20.16	A
ATOM	1284 · N	SER A 296	46.451			1.00 18.12	A
ATOM	1285 CA	SER A 296				1.00 17.12	A
ATOM	1286 CB	SER A 296 ·	46.902		6.853	1.00 17.18	A
ATOM	1287 OG	SER A 296			7.244	1.00 17.73	A A
							A

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ATOM	1288	С	SER	Α	296		44.929	23.347	-6.943	1.00	18.00	A
ATOM	1289	0	SER	Α	296		44.744	23.083	-5.755	1.00	17.02	A
ATOM	1290	N	THR	A	297		43.934	23.438	-7.816	1.00	15.86	A
ATOM	1291	CA	THR				42.552	23.259			16.19	A
MOTA	1292	СВ	THR				41.580	23.837	-8.446		16.61	A
MOTA	1293	OG1					41.795	25.249			19.45	A
MOTA	1294	CG2					40.130	23.589			18.10	A
MOTA	1295	С	THR				42.186	21.804	-7.121		16.88	A
ATOM	1296	0.	THR				42.511	20.910	-7.899		19.37	A
ATOM	1297	N	THR			•	41.522	21.579	-5.993		14.80	A A
ATOM	1298	CA	THR				41.072	20.248 19.988	-5.609 -4.103		14.89	A
ATOM	1299 1300	CB OC1	THR THR				41.282	19.966	-3.812		18.58	A
ATOM ATOM	1300	CG2				•	40.672	18.650	-3.697		18.79	
ATOM	1301	C	THR				39.581	20.203	-5.890		13.32	A
ATOM	1303	Ö	THR				38.838	21.043	-5.398		12.51	A
ATOM	1304	N	ARG				39.149	19.232	-6.688		13.14	A
ATOM	1305	CA	ARG				37.735.	19.094	-7.007		13.42	A
ATOM	1306	СВ	ARG				37.543	18.923	-8.513	.1.00	14.70	. А
ATOM	1307	CG.	ARG				37.595	20.223	-9.282	1.00	15.90	A
ATOM	1308	CD	ARG	Α	299		37.341	19.992	-10.756	1.00	18.69	A
ATOM	1309	NE	ARG	А	299		37.088	21.244	-11.455		22.79	A
ATOM	1310	CZ	ARG				36.981		-12.773	1.00		A
MOTA	1311		ARG				37.111		-13.535	1.00		A
MOTA	1312		ARG				36.738		-13.327	1.00		A
ATOM	1313	С	ARG				37.101	17.919	-6.276	1.00		A
ATOM	1314	0 .	ARG				37.580	16.785	-6.365	1.00		A
MOTA	1315	N	LEU				36.024	18.201	-5.550	1.00		. А
ATOM	1316 1317	CA	LEU LEU				35.302 35.158	17.181 17.594	~4.799 -3.333	1.00		A A
ATOM ATOM	1317	CB CG	LEU			•	36.415	18.043	-2.589	1.00		A
ATOM	1319		LEU				36.058	18.364	-1.142	1.00		A
ATOM	1320		LEU				37.469	16.963	-2.654	1.00		A
ATOM	1321	c	LEU				33.913	17.004	-5.391	1.00		A
ATOM	1322	0	LEU				33.200	17.981	-5.615	1.00		A
ATOM	1323	N	TYR				33.531	15.756	-5.649	1.00	13.54	A
ATOM	1324	CA	TYR	A	301		32.213	15.463	-6.197	1.00	13.49	A
ATOM	1325	СВ	TYR	A	301		32.336	14.587	-7.446	1.00	15.65	A
MOTA	1326	CG	TYR	A	301		33.051	15.291	-8.577	1.00	17.58	Α
ATOM	1327	CD1	TYR				34.443	15.368	-8.606	1.00		Α
ATOM	1328	CE1	TYR				35.105	16.079	-9.602	1.00		A
ATOM	1329	CD2	TYR .				32.332	15.945	-9.581	1.00		A
ATOM	1330	CE2	TYR .				32.985		-10.583	1.00		A
ATOM ATOM	1331 1332	CZ OH	TYR .				34.371 35.025		-10.584 -11.563	1.00		A A
ATOM	1333	C	TYR .				31.390	14.768	-5.122	1.00		A
ATOM	1334	Ö	TYR			٠	31.678	13.634	-4.741	1.00		A
ATOM	1335	N	LEU				30.369	15.465	-4.633	1.00		A
ATOM	1336	CA	LEU				29.518	14.945	-3.570	1.00		A
ATOM	1337	СВ	LEU Z				29.176	16.067	-2.584	1.00	13.35	A
MOTA	1338	CG	LEU Z	A	302		30.341	16.918	-2.075	1.00	14.08	A
ATOM	1339		LEU A			•	29.806	18.031	-1.184	1.00	16.90	A
ATOM	1340		LEU A				31.327	16.046	-1.317	1.00		A
MOTA	1341	С	LEU A				28.221	14.332	-4.081	1.00		A
MOTA	1342	0	LEU I				27.629	14.816	-5.046	1.00		A
ATOM	1343	N	ARG A				27.783	13.264	-3.427	1.00		A
ATOM	1344	CA	ARG A				26.531	12.624	-3.796	1.00		A
ATOM	1345 1346	CB	ARG A				26.757	11.496 10.303	-4.807 -4.318	1.00		A
ATOM ATOM	1346	CG CD	ARG A				27.559 27.532	9.215	-4.318 -5.390	1.00 2		A A
ATOM	1347	NE	ARG A				28.155	7.963	-4.968	1.00 2		. A A
ATOM	1349	CZ	ARG A				29.466	7.745	-4.928	1.00 2		A ·
ATOM	1350		ARG A				30.318	8.698	-5.286	1.00 2		A
ATOM	1351		ARG A				29.926	6.561	-4.541	1.00 2		A
ATOM	1352	С	ARG A				25.846	12.099	-2.543	1.00		A
ATOM	1353	Ο.	ARG A				26.469	11.966	-1.485	1.00		A
MOTA	1354	N	LYS A				24.556	11.810	-2.659	1.00 1		A
MOTA	1355	CA	LYS A	4	304		23.812	11.334	-1.511	1.00 1	7.94	A

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ATOM	1356	СВ	LYS	A	304	22.314	11.601	-1.690	1.00 18.58	A
ATOM	1357	CG			304	21.506	11.138	488		A
ATOM	1358	CD			304	20.282	11.987	235 1.199	1.00 24.03 1.00 21.77	A A
ATOM ATOM	1359. 1360	CE NZ			304 304	19.638	11.807 10.368	1.563	1.00 21.77	A
ATOM	1361	C			304	24.025	9.868	-1.172	1.00 16.85	A
ATOM	1362	ō			304	24.151	9.015	-2.055	1.00 18.41	A
ATOM	1363	N			305	24.089	9.604	.128	1.00 16.74	A
ATOM	1364	CA			305	24.237	8.254	. 637	1.00 16.44	A
ATOM	1365 1366	C O			305 305	22.957 22.066	7.994 8.843	1.404 1.414	1.00 16.49 1.00 16.52	A A
MOTA MOTA	1367	N			305	22.838	6.844	2.057	1.00 17.03	A
ATOM	1368	CA			306	21.614	6.569	2.798	1.00 18.22	A
ATOM	1369	СВ	ARG	Α	306	21.575	5.110	3.261	1.00 21.45	, A
MOTA	1370	CG			306	20.253	4.741	3.913	1.00 27.33	. A
ATOM	1371 1372	CD			306 306	20.090 21.051	3.243 2.699	4.113 5.067	1.00 32.41 1.00 36.11	A A
MOTA MOTA	1373	NE CZ			306	20.914	1.520	5.662	1.00 30.11	. A
ATOM	1374				306	19.853	.768	5:399	1.00 39.22	'A
ATOM	1375	NH2			306	21.831	1.092	6.520	1.00 39.30	A
ATOM	1376	. C	-		306	21.448	7.493	4.002	1.00 16.95	A
MOTA	1377	0			306 307	22.409 20.220	7.795 7.954	4.710 4.221	1.00 16.27 1.00 16.74	A A
MOTA MOTA	1378 1379	N CA	-		307	19.946	8.824	5.350	1.00 10.74	A
ATOM	1380	C			307	20.798	10.080	5.393	1.00 16.48	A
MOTA	1381	0	GLY	Α	307	20.848	10.843	4.426	1.00 15.11	A
ATOM	1382	N			308	21.476	10.289	6.519	1.00 16.48	A
ATOM	1383	CA			308	22.318	11.467 11.838	6.694 8.182	1.00 17.56	
MOTA MOTA	1384 1385	CB CG	GLU		308 308	22.399 23.297	10.947	9.053	1.00 19.01	A A
ATOM	1386	CD			308	22.828	9.501	9.145	1.00 24.06	A
ATOM	1387		GLU			21.610	9.266	9.285	1.00 23.79	A
MOTA	1388		GLU			23.686	8.595	9.095	1.00 26.02	A
ATOM	1389	C			308	23.726	11.301	6.132	1.00 16.66	A
ATOM ATOM	1390 1391	О И			308 309	24.532 24.032	12.235 10.127	6.185 5.586	1.00 15.98 1.00 14.19	A A
ATOM	1392	CA			309	25.367	9.899	5.044	1.00 15.36	A
ATOM	1393	СВ			309	25.741	8.396	5.038	1.00 16.75	. A
MOTA	1394		THR			24.944	7.694	4.077	1.00 17.63	A
ATOM	1395		THR		309 309	25.515	7.794	6.416 3.637	1.00 17.50	A
ATOM ATOM	1396 1397	c o			309	25.507 24.535	10.461 10.565	2.886	1.00 14.74 1.00 14.98	A A
ATOM	1398	N			310	26.730	10.843	3.296	1.00 14.85	A
ATOM	1399	CA	ARG	A	310	27.027	11.410	1.989	1.00 14.16	Α
MOTA	1400	СВ	-		310	27.110	12.938	2.092	1.00 13.55	. A
MOTA	1401	CG			310	25.824	13.620	2.565	1.00 14.48	A
ATOM ATOM	1402 1403	CD NE	ARG		310 310	24.745 23.552	13.562	1.493 1.830	1.00 14.76 1.00 15.70	A A
ATOM	1404	CZ	ARG			22.574	13.926	2.632	1.00 16.49	A
ATOM	1405	NH1	ARG			22.634	12.730	3.199	1.00 14.99	A
ATOM	1406		ARG			21.5.23	14.708	2.854	1.00 15.34	A
MOTA	1407	С	ARG			28.362	10.846	1.532	1.00 13.62 1.00 14.37	A
MOTA-	1408 1409	0 N	ARG ILE			29.150 28.619	10.355 10.911	2.343 .234	1.00 14.37	A A
ATOM	1410	CA			311.	29.871	10.404	297	1.00 15.05	A
MOTA	1411	CB	ILE			29.633	9.181	-1.206	1.00 17.49	A
MOTA	1412		ILE			30.958	8.671	-1.751	1.00 19.53	A
ATOM	1413		ILE			28.929	8.079	412 -1.269	1.00 21.16	A
ATOM ATOM	1414 1415	CDI	ILE			28.447 30.599	6.931 11.477	-1.269	1.00 24.48 1.00 14.37	A A
ATOM	1416	ō	ILE			29.989	12.222	-1.866	1.00 14.03	A
ATOM	1417	N	CYS	А	312	31.907	11.560	884	1.00 13.85	Α.
ATOM	1418	CA	CYS			32.741	12.519	-1.588	1.00 13.35	A
ATOM ATOM	1419	CB	CYS CYS			33.516	13.393	597 -1.391	1.00 13.04	A
ATOM	1420 1421	SG C	CYS			34.710 33.718	14.505 11.728	-1.391	1.00 16.96 1.00 14.32	A A
ATOM	1422	ō	CYS			34.361	10.793	-1.956	1.00 14.42	A
MOTA	1423	N	LYS			33.825	12.097	-3.710	1.00 14.16	A

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MOTA	1424	CA	LYS A	313	34.733	11.408	-4.610	1.00	15.69	А
ATOM	1425	CB	LYS A	313	33.940	10.672	-5.693		18.29	A
ATOM	1426	CG	LYS A	313	34.806	9.870	-6.650	1.00	21.66	А
ATOM	1427	CD	LYS A	313	33.953	9.085	-7.636	1.00	27.84	А
ATOM	1428	CE	LYS A	313	34.818	8.203	-8.525	1.00	31.20	Α
MOTA	1429	NZ	LYS A	313	34.006	7.412	-9.494	1.00	36.03	Α
ATOM	1430	С	LYS A	313	35.692	12.396	-5.258	1.00	16.66	A
ATOM	1431	0	LYS A	313	35.300	13.510	-5.610	1.00	15.05	А
MOTA	1432	N	ILE A 3	314	36.950	11.985	-5.391	1.00	17.72	A
MOTA	1433	CA	ILE A 3	314	37.977	12.812	-6.016	1.00	22.21	A
MOTA	1434	СВ	ILE A'S		39.083	13.192	-5.016	1.00	22.48	Α
ATOM	1435	CG2			40.135	14.053		1.00	26.30	A
ATOM	1436	CG1			38.472	13.959			21.65	A
MOTA	1437	CD1			39.476	14.366			26.01	A
MOTA	1438	С	ILE A 3		38.580	12.015	-		26.09	A
ATOM	1439	0	ILE A 3		38.628	10.785			24.64	A
ATOM	1440	И.	TYR A 3		39.047	12.718			31.43	A
ATOM	1441		TYR A 3		39.607		9.383		37.29	A
MOTA	1442	CB	TYR A 3		38.827		-10.616			A
ATOM	1443	CG	TYR A 3		37.426		-10.689		38.88	A
ATOM ATOM	1444	CD1 CE1			37.179		-11.197 -11.275		39.92	. A
ATOM	1446	CD2			35.887 36.342		-10.255		39.85 39.19	A
ATOM	1447	CE2			35.046		-10.233		39.19	A
ATOM	1448	CZ	TYR A 3		34.825		-10.323		40.03	A A
ATOM	1449	ОН	TYR A 3		33.547		-10.933		41.58	A
ATOM	1450	c	TYR A 3		41.089	12.288	-9.656		41.54	A
ATOM	1451	ō	TYR A 3		41.827	12.818	-8.823		42.77	A
ATOM	1452	N	ASP A 3		41.488		-10.857		45.11	A
ATOM	1453	CA	ASP A 3		42.856		-11.364		48.76	A
ATOM	1454	СВ	ASP A 3		42.913		-12.562		51.10	A
ATOM	1455	CG	ASP A 3		41.986		-13.685		53.20	A
MOTA	1456	OD1	ASP A 3	16	41.864		-13.929		54.29	A
ATOM	1457	OD2	ASP A 3	16	41.387		-14.331		55.12	A
ATOM	1458	С	ASP A 3	16	43.901	12.364	-10.339	1.00	50.29	А
ATOM	1459	0	ASP A 3	16	44.235	13.541	-10.202	1.00	50.40	A
ATOM	1460	N	SER A 3	17	44.419	11.370	-9.628	1.00	51.63	A
ATOM	1461	CA	SER A 3	17.	45.433	11.596	-8.611	1.00	53.06	A
MOTA	1462	CB	SER A 3	17	44.829	11.406	-7.217	1.00	53.24	A
ATOM	1463	OG	SER A 3		43.646	12.170	-7.060	1.00	53.77	A
ATOM	1464	С	SER A 3		46.563	10.596	-8.817		53.83	Α
ATOM	1465	0	SER A 3		46.346	9.385	-8.752	1.00	54.39	Α
ATOM	1466	N	PRO A 3		47.786	11.088	-9.079		54.06	A
ATOM	1467	CD	PRO A 3		48.160	12.498	-9.289		54.37	A
ATOM	1468	CA	PRO A 3:		48.940	10.210	-9.291		53.91	A
ATOM ATOM	1469	CB	PRO A 3		50.110	11.185	-9.282		54.17	A
ATOM	1470 1471	CG C	PRO A 31		49.520	12.377	-9.956		54.74	A
ATOM	1472	Ö	PRO A 31		49.057 49.799	9.138	-8.213		53.87	A
ATOM	1473	N	CYS A 3		48.320	8.167 9.321	-8.365 -7.123		54.39 53.04	A
ATOM	1474	CA	CYS A 3	-	48.323	8.365	-6.025		52.44	A
ATOM	1475	СВ	CYS A 31		48.105	9.089	-4.694		52.58	A A
ATOM	1476	SG	CYS A 31		49.423	10.257	-4.264		52.30	A
ATOM	1477	C	CYS A 31		47.226	7.326	-6.247		52.16	Ä
ATOM	1478	0	CYS A 31		47.417	6.143	-5.975	1.00		A
ATOM	1479	N	LEU A 32		46.079	7.776	-6.749	1.00		A
ATOM	1480	CA	LEU A 32	20	44.950	6.890	-7.020	1.00		A
ATOM	1481	СВ	LEU A 32	20	44.162	6.617	-5.735	1.00		A
MOTA	1482	CG	LEU A 32		44.850	5.852	-4.600	1.00		A
ATOM	1483	CD1	LEU A 32	0	43.919	5.791	-3.401	1.00		A
ATOM	1484	CD2	LEU A 32	:0	45.219	4.449	-5.062	1.00		A
MOTA	1485		LEU A 32		44.024	7.519	-8.057	1.00		A
ATOM	1486		LEU A 32		43.617	8.673	-7.917.	1.00	48.51	A
MOTA	1487	N	PRO A 32		43.681	6.769	-9.117	1.00	46.71	A
ATOM	1488		PRO A 32		44.099	5.390	-9.425	1.00		. A
ATOM	1489		PRO A 32		42.795		-10.162	1.00		A
MOTA	1490		PRO A 32		42.474		-10.984	1.00		A
ATOM	1491	CG	PRO A 32	1	43.749	5.270	-10.895	1.00	46.59	A

ATOM	1492	С	PRO	А	321	41.545	7.927	-9.562	1.00 41.95	A
									1.00 40.86	A
MOTA	1493	0	PRO	A	321	41.167	9.042	-9.924		
ATOM	1494	N	GLU	Α	322	40.911	7.205	-8.644	1.00 39.09	A
					322	39.708	7.686	-7.978	1.00 36.24	Α
MOTA	1495	CA						. •		
ATOM	1496	ÇВ	GLU	Α	322	38.455	7.113	-8.646	1.00 39.05	A
ATOM	1497	CG	GLII	Δ	322	38.497	7.091	-10.165	1.00 43.79	Α
									1.00 46.15	A
ATOM	1498	CD	GLU	A	322	37.226	•	-10.770		
MOTA '	1499	OE1	GLU	Α	322	36.680	5.555	-10.200	1.00 47.26	. A
						36.779	7 036	-11.818	1.00 48.33	A
MOTA	1500				322					
ATOM	1501	С	GLU	A	322	39.744	7.232	-6.526	1.00 32.58	A
ATOM	1502	0	GLD	Δ.	322	40.264	6.161	-6.213	1.00 31.65	A
									1.00 26.73	A
ATOM	1503	N	ALA	A	323	39.197	8.054	-5.641		
ATOM	1504	CA	ALA	A	323	39.151	7.722	-4.227	1.00 23.49	Α
	1505	СВ			323	40.367	8.285	-3.509	1.00 24.09	A
MOTA										
MOTA	1506	С	ALA	Α	323	37.874	8.311	-3.655	1.00 21.23	A
MOTA	1507	0	AT.A	А	323	37.432	9.382	-4.074	1.00 18.44	Α
							7.606	-2.706	1.00 20.46	A
MOTA	1508	N	GLU	Α	324	37.274				
MOTA	1509	CA	GLU	Α	324	36.043	8.077	-2.100	1.00 21.25	Α
MOTA	1510	СВ	CIR	70	324	34.849	7.280	-2.624	1.00 23.33	A
MOTA	1511	CG	GLU	Α	324	34.651	7.327	-4.124	1.00 27.34	A
MOTA	1512	CD	GLU	Α	324	33.426	6.543	-4.550	1.00 29.02	Α
					324	33.318	5.362	-4.158	1.00 31.71	A
MOTA	1513								•	
MOTA	1514	OE2	GLU	Α	324	32.576	7.101	-5.272	1.00 30.39	A
ATOM	1515	С	GLU	Δ	324	36.074	7.951	589	1.00 20.52	A
								029	1.00 21.51	A
ATOM	1516	0	GLU	Α	324	36.831	7.158			
MOTA	1517	N	ALA	Α	325	35.237	8.746	.061	1.00 18.38	Α
ATOM	1518	CA	AIA	7	325	35.120	8.719	1.505	1.00 18.27	A
•										
ATOM	1519	CB	ALA	Α	325	36.072	9.727	2.140	1.00 18.87	A
MOTA	1520	С	Δ.Τ.Δ	Δ	325	33.684	. 9.064	1.855	1.00 17.32	Α
							9.869	1.178	1.00 16.37	A
ATOM	1521	0	ALA	А	325	33.044				
ATOM	1522	N	MSE		326	33.175	8.440	2.910	.51 16.14	AC1
ATOM	1523	CA	MSE		326	31.814	8.690	3.353	.51 15.49	AC1
ATOM	1524	CB	MSE		326	31.127	7.370	3.722	.51 16.90	AC1
ATOM	1525	CG	MSE		326	29.621	7.477	3.913	.51 17.28	AC1
							5.774	4.333	.51 21.71	AC1
ATOM ·	1526	SE	MSE		326	28.788				
ATOM	1527	CE	MSE		326	29.498	4.732	2.874	.51 24.72	AC1
ATOM	1528	С	MSE		326	31.863	9.603	4.571	.51 15.12	AC1
ATOM	1529	0	MSE		326	32.823	9.569	5.341	.51 16.04	AC1
MOTA	1530	N	PHE	Α	327	30.837	10.432	4.728	1.00 14.66	A
	1531	CA			327	30.746	11.333	5.859	1.00 13.34	A
MOTA										
ATOM	1532	CB	PHE	Α	327	31.439	12.686	5.582	1.00 14.23	A
ATOM	1533	CG	PHE	А	327	30.856	13.476	4.437	1.00 12.58	A
			PHE			31.180	13.169	3.119	1.00 13.45	Α
ATOM	1534									
MOTA	1535	CD2	PHE	Α	327	30.024	14.568	4.685	1.00 14.05	A
ATOM	1536	CE3	PHE	Α	327	30.689	13.942	2.060	1.00 13.50	A
									1.00 13.64	
ATOM	1537		PHE			29.527	15.347	3.638		A
ATOM	1538	CZ	PHE	Α	327	29.863	15.033	2.321	1.00 13.36	Α
ATOM	1539	С	PHE	Δ	327	29.267	11.509	6.158	1.00 13.91	A
ATOM	1540	0			327	28.416	10.945	5.466	1.00 13.73	A
ATOM	1.541	N	ALA	Α	328	28.952	12.254	7.205	1.00 13.81	· A
ATOM	1542	CA	ALA			27.560	12.464	7.558	1.00 13.68	A
ATOM	1543	CB	ALA	Α	328	27.187	11.586	8.744	1.00 15.04	A
ATOM	1544	С	ALA	Α	328	27.306	13.919	7.893	1.00 14.38	A
ATOM	1545	0	ALA			28.210	14.631	8.326	1.00 14.71	A
ATOM	1546	N	ILE	Α	329	26.077	14.365	7.668	1.00 14.86	A
ATOM	1547	ĊA	TLE	Α	329	25.715	15.732	7.995	1.00 16.92	Α
MOTA	1548	СВ			329	25.036	16.451	6.798	1.00 18.22	Α
MOTA	1549	CG2	ILE	Α	329	25.997	16.493	5.619	1.00 17.39	Α
ATOM	1550		ILE			23.752	15.733	6.383	1.00 21.82	Α
MOTA	1551	CD1	ILE			23.055	16.386	5.193	1.00 25.55	А
ATOM	1552	С	ILE	Α	329	24.784	15.663	9.201	1.00 17.32	A
ATOM	1.553	ō			329	23.758	14.979	9.179	1.00 18.02	A
ATOM	1554	N	ASN	A	330	25.170	16.349	10.268	1.00 17.70	A
ATOM	1555	CA	ASN	Α	330	24.391	16.352	11.497	1.00 18.00	Α.
						25.208	15.731	12.637	1.00 20.36	. A
ATOM	1556	СВ	ASN							
ATOM	1557	CG	ASN	Α	330	25.759	14.353	12.289	1.00 21.76	Α
ATOM	1558	OD1	ASN	Α	330	25.006	13.418	12.006	1.00 22.43	Α
								12.314	1.00 23.90	
ATOM .	1559	MUZ	ASN	'n	J J U	27.081	14.223	15.714	1.00 23.90	A

ATOM	1560	С	ASN	Α	330	23.979	17.767	11.883	1.00	18.09	A
ATOM	1561	0	ASN	Α	330	24.365	18.743	11.235	1.00	16.82	Α
ATOM	1562	N			331	23.195		12.951	1.00	18.79	А
ATOM	1563	CA			331	22.727		13.441		19.16	A
		CB				21:802	18.955	14.634		20.84	A
ATOM	1564				331			13.837		18.41	A
ATOM	1565	C			331	23.901	20.037				
MOTA	1566	0			331	23.822	21.261	13.740		19.60	A
MOTA	1567	N			332	24.989	19.416	14.288		18.22	A
ATOM .	1568	CA	ASP	A	332	26.168	20.170	14.688		17.37	A
MOTA	1569	CB	ASP	Α	332	26.640	19.752	16.090	1.00	19.49	A
ATOM	1570	CG	ASP	Α	332	26.835	18.254	16.228	1.00	22.57	Α
ATOM	1571		ASP			26.695	17.528	15.222	1.00	23.71	A
ATOM	1572		ASP			27.136	17.803	17.355	1.00	25.43	A
ATOM	1573	C			332	27.311	20.053	13.689		16.67	A
		Ö			332	28.483	20.038	14.065		15.11	A
ATOM	1574					26.959	19.960	12.410		15.38	A
ATOM	1575	Ν.			333						A
MOTA	1576	CA			333	27.974	19.897	11.375		15.75	
MOTA	1577	С			333	28.344	18.547	10.796		13.57	A
ATOM	1578	0			333	27.752	17.513	11.111		14.77	Α
MOTA	1579	N			334	29.346	18.580	9.924		11.52	A
MOTA	1580	CA	VAL	Α	334	29.844	17.391	9.254	1.00	10.99	Α
ATOM	1581	ÇВ	VAL	Α	334	30.746	17.791	8.063	1.00	9.62	A
ATOM	1582		VAL	Α	334	31.534	16.585	7.549	1.00	11.92	A
ATOM	1583		VAL			29.879	18.366	6.952	1.00	12.03	Α
ATOM	1584	C			334	30.614	16.499	10.218		11.60	A
		o			334	31.450	16.965	10.989		12.63	A
ATOM	1585							10.181		12.25	A
ATOM	1586	N			335	30.301	15.209				
ATOM	1587	CA			335	30.975	14.252	11.036		12.89	. А
ATOM .	1588	С			335	31.193	12.971	10.259		13.23	A
ATOM	1589	0	GLY	Α	335	30.982	12.931	9.048		13.01	A
ATOM	1590	N	ASP	Α	336	31.618	11.916	10.938	1.00	15.14	A
ATOM	1591	CA	ASP	Α	336	31.834	10.660	10.244	1.00	16.51	A
ATOM	1592	СВ			336	32.956	9.870	10.911	.1.00	17.22	A
ATOM	1593	CG			336	34.318	10.457	10.610	1.00	19.47	A
ATOM	1594		ASP			34.936	11.045	11.523		20.13	A
ATOM	1595		ASP			34.753	10.345	9.443		19.26	A
						30.561	9.835	10.172		16.78	A
ATOM	1596	C	ASP								
ATOM	1597	0	ASP			29.688	9.936	11.034		16.77	A
MOTA	1598	N	ALA			30.451	9.039	9.116		16.17	A
MOTA	1599	CA	ALA	Α	337	29.285	8.195	8.920		17.98	A
MOTA	1600	CB.	ALA	Α	337	29.267	7.651	7.497		17.82	A
ATOM	1601	С	ALA	Α	337	29.322	7.053	9.926	1.00	19.32	A
ATOM	1602	0	ALA	Α	337	30.376	6.472	10.181	1.00	18.99	A
ATOM	1603	N	LYS	Α	338	28.163	6.738	10.490	1.00	20.19	. A
ATOM	1604	CA	LYS	Α	338	28.053	5.676	11.479	1.00	22.21	A
ATOM	1605	СВ	LYS			27.738	6.279	12.850		23.47	A
ATOM	1606	CG	LYS			28.784	7.255	13.360		26.58	A
ATOM	1607	CD	LYS			30.111	6.561			29.32	A
ATOM	1608	CE	LYS			31.150	7.544	14.142		32.11	A
ATOM		NZ	LYS			32.439	6.871	14.460		34.51	A
	1609										
ATOM	1610	C	LYS			26.946	4.702	11.099		23.93	A
ATOM	1611	0	LYS			25.977	-	10.437		22.40	A
ATOM	1612	N	ASP			27.093	3.44.7	11.508		25.44	A
ATOM	1613	CA	ASP			26.068	2.452	11.228		27.67	A
ATOM	1614	CB	ASP	A.	339	26.693	1.085	10.924	1.00	29.98	. A
ATOM	1615	CG	ASP	Α	339	27.592	. 584	12.043	1.00	32.94	Α.
ATOM	1616	OD1	ASP	Α	339	27.427	1.025	13.201	1.00	33.12	A
ATOM	1617	OD2	ASP	А	339	28.462	267	11.761		36.58	A
ATOM	1618	c	ASP			25.169	2.347	12.456		28.80	Α.
ATOM	1619	ō	ASP			24.424	1.352	12.570		28.88	A
ATOM	1620	OXT				25.220	3.279	13.289		28.59	A
ATOM	1621		PRO		519		50.430	203		37.27	
		CB				24.486					
ATOM	1622	CG	PRO		519	24.699	51.944	398		37.06	AC1
MOTA	1623	C	PRO		519	24.307	49.154	1.952		35.98	AC1
MOTA	1624	0	PRO		519	25.171	48.407	1.497		37.38	AC1
MOTA	1625	N	PRO		519	24.293	51.611	1.883		34.39	AC1
ATOM	1626	CD	PRO		519	25.11,7	52.443	. 989		33.96	AC1
MOTA	1627	CA	PRO	1	519	23.845	50.392	1.173	. 50	35.12	AC1

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ATOM	1628	N	TH	R B1520	23.744	48.961	3.142	1.00 35.07	В
ATOM	1629	CA	THI	R B1520	24.098	47.838	4.013	1.00 33.12	В
ATOM	1630	CB		R B1520	23.242	47.855	5.296	1.00 33.72	В
ATOM	1631			R B1520	21.871	47.557	4.982	1.00 33.68	В
ATOM	1632	CG2		R B1520	23.307	49.243	5.942	1.00 34.95	В
ATOM	1633	С		R B1520 R B1520	23.952	46.477	3.357	1.00 31.94	В
ATOM ATOM	1634 1635	O N		J B1521	24.698 23.026	45.547 46.379	3.676 2.411	1.00 31.26 1.00 28.07	B B
ATOM	1636	CA		J B1521	22.780	45.125	1.720	1.00 27.74	В
ATOM	1637	СВ		J B1521	21.495	45.232	.896	1.00 27.44	В
ATOM	1638	CG		J B1521	20.189	45.382	1.680	1.00 27.21	. в
ATOM	1639	CD1	LE(J B1521	19.046	45.662	.717	1.00 28.85	В
ATOM	1640	CD2	LE	J B1521	19.916	44.121	2.486	1.00 27.53	В
ATOM	1641	С		J B1521	23.899	44.613	.817	1.00 26.48	В
ATOM	1642	0		J B1521	23.957	43.416	. 532	1.00 26.28	В
MOTA	1643	N		J B1522	24.783	45.500	. 373	1.00 25.12	В
MOTA	1644	CA		J B1522 J B1522	25.854 25.976	45.093 46.115	529 -1.662	1.00 24.52 1.00 26 00	В
ATOM ATOM	1645 1646	CB CG		J B1522	24.681	46.113	-2.447	1.00 25.00	B B
ATOM	1647.			J B1522	24.911	47.429	-3.496	1.00 27.30	В
ATOM	1648			J-B1522	24.221	45.056	-3.097	1.00 26.47	В
MOTA	1649	С	LEU	B1522	27.221	44.871	.115	1.00 23.01	В
ATOM	1650	0	LEU	B1522	28.192	44.588	584	1.00 23.87	В
MOTA	1651	N	GLY	B1523	27.303	44.997	1.436	1.00 21.25	В
MOTA	1652	CA		B1523	28.572	44.787		1.00 19.07	В
ATOM	1653	С		B1523	28.527	43.565	3.013	1.00 16.93	В
ATOM	1654	0		B1523	27.592	42.769	2.933	1.00 18.20	В
ATOM ATOM	1655 1656	N CA		B1524 B1524	29.531 29.590	43.414 42.278	3.872 4.791	1.00 15.85 1.00 13.68	В
ATOM	1657	CB		B1524	31.027	41.762	4.791	1.00 13.88	8 B
ATOM	1658	CG		B1524	31.521	40.956	3.776	1.00 13.30	В
ATOM	1659			B1524	32.085	41.577	2.667	1.00 14.58	В
ATOM	1660	CD2	PHE	B1524	31.440	39.568	3.799	1.00 13.15	В
MOTA	1661	CE1	PHE	B1524	32.567	40.825	1.594	1.00 12.21	. В
ATOM	1662			B1524	31.914	38.805		1.00 .13.77	, В
ATOM	1663	CZ		B1524	32.482	39.437	1.628	1.00 14.06	В
ATOM	1664	C		B1524	29.088	42.622	6.188	1.00 12.65	В
ATOM ATOM	1665 1666	N N		B1524 B1525	29.194 28.547	43.762 41.613	6.635	1.00 13.98 1.00 11.84	В
ATOM	1667	CA		B1525	28.078	41.733	6.865 8.241	1.00 11.84	B B
ATOM	1668	СВ		B1525	26.553	41.694	8.327	1.00 15.13	В
ATOM	1669	CG		B1525	25.881	42.936	7.844	1.00 18.82	В
ATOM	1670	CD2	HIS	B1525	25.345	43.978	8.521	1.00 20.71	В
ATOM	1671	ND1	HIS	B1525	25.675	43.198	6.507	1.00 23.42	В
ATOM	1672			B1525	25.036	44.349	6.382	1.00 21.27	В
ATOM	1673			B1525	24.824	44.842	7.589	1.00 22.01	В
ATOM	1674 1675	C		B1525	28.608	40.506	8.977	1.00 12.75	В
ATOM ATOM	1676	O N		B1525 B1526	28.847 28.812	39.468 40.612	8.358 10.283	1.00 12.86 1.00 11.64	B B
ATOM	1677	CA		B1526	29.261	39.439	11.023	1.00 11.04	В
ATOM	1678	СB		B1526	29.661	39.773	12.471	1.00 12.84	В
ATOM	1679	OG1		B1526	28.529	40.315	13.165	1.00 14.05	В
MOTA	1680	CG2	THR	B1526	30.808	40.768	12.495	1.00 12.72	В
ATOM	1681	С		B1526	28.037	38.533	11.065	1.00 12.89	В
ATOM	1682	0		B1526	26.927	38.979	10.777	1.00 13.46	В
ATOM	1683	N		B1527	28.222	37.267	11.419	1.00 11.46	В
ATOM ATOM	1684	CA		B1527	27.090	36.355	11.486	1.00 14.41	В
ATOM	1685 1686	CB C		B1527 B1527	27.577 26.144	34.923 36.771	11.695 12.614	1.00 12.82	B
ATOM	1687	0		B1527	25.014	36.771	12.614	1.00 15.41 1.00 17.98	B B
ATOM	1688	N		B1528	26.615	37.667	13.480	1.00 17.56	• В
ATOM	1689	CA		B1528	25.813	38.174	14.593	1.00 10.50	В
MOTA	1690	СВ	SER	B1528	26.701	38.453	15.816	1.00 19.90	В
MOTA	1691	OG		B1528	27.833	39.242	15.479	1.00 23.75	В
ATOM	1692			B1528	25.045	39.438	14.197	1.00 20.84	В
ATOM	1693			B1528	24.355	40.041	15.025	1.00 22.21	В
ATOM ATOM	1694 1695			B1529 B1529	25.177	39.840	12.934	1.00 20.05	В
ni off	1033	CA	SLI	01363	24.463	41.009	12.440	1.00 20.14	В

1.00 19.33 1696 **GLY B1529** 25.170 42.352 12.501 ATOM C В ATOM 1697 **GLY B1529** 24.563 43.386 12.206 1.00 20.61 0 **ATOM** 1698 LYS B1530 26.444 42.355 12.873 1.00 17.30 N ATOM 1699 CA LYS B1530 27.201 43.601 12.970 1.00 17.58 1700 LÝS B1530 28.286 43.475 14.038 1.00 17.52 ATOM CB 27.772 **ATOM** 1701 CG LYS B1530 43.081 15.411 1.00 21.01 В **ATOM** 1702 CD LYS B1530 28.925 42.887 16.381 1.00 23.76 ATOM 1703 CE LYS B1530 28.419 42.487 17.756 1.00 26.60 27.538 ATOM 1704 ΝZ LYS B1530 41.296 17.669 1.00 30.15 1705 LYS B1530 27.853 43.992 11.647 1.00 18.75 ATOM С R ATOM 1706 0 LYS B1530 28.533 43.182 11.018 1.00 17.86 1.00 17.05 1707 27.649 45.237 11.228 LYS B1531 MOTA N R ATOM 1708 CA LYS B1531 28.251 45.718 9.991 1.00 19.95 1.00 22.55 ATOM 1709 CB LYS B1531 27.836 47.172 9.727 1.00 28.55 1.00 34.63 **ATOM** 1710 CG LYS B1531 28.565 47.851 8.567 В 47.435 LYS B1531 28.007 ATOM 1711 CD 7.215 В ATOM 1712 CE LYS B1531 28.704 48.189 6.086 1.00 36.55 28.094 ATOM 1713 LYS B1531 47.921 4.752 1.00 39.45 ΝZ В LYS B1531 29.767 ATOM 1714 С 45.629 10.134 1.00 19.45 В LYS B1531 30.314 45.892 11.206 **ATOM** 1715 0 1.00 20.19 В VAL B1532 ATOM 1716 N 30.446 45.235 9.062 1.00 19.36 B VAL B1532 31.899 45.140 **ATOM** 1717 CA 9.091 1.00 19.78 43.938 ATOM 1718 VAL B1532 32.411 1.00 19.96 CB 8.268 В MOTA 1719 CG1 VAL B1532 33.930 43.987 8.162 1.00 19.38 CG2 VAL B1532 31.970 42.638 1.00 19.54 ATOM 1720 8.919 В ATOM 1721 VAL B1532 32.469 46.419 8.496 1.00 20.72 В MOTA 32.213 46.738 1722 VAL B1532 7.337 0 1.00 22.21 В ATOM 1723 LYS B1533 33.234 47.156 9.295 N 1.00 22.24 В 48.405 1724 MOTA ÇA LYS B1533 33.826 8.829 1.00 25.01 В ATOM 1725 34.009 49.375 СВ LYS B1533 10.000 1.00 29.14 В MOTA 1726 CG LYS B1533 32.705 49.823 10.635 1.00 33.73 1.00 38.58 **ATOM** 1727 CD LYS B1533 32.941 50.800 11.776 1728 33.556 52.098 ATOM CE LYS B1533 11.279 1.00 40.70 12.396 1.00 43.43 MOTA 1729 NZ LYS B1533 33.790 53.054 В **ATOM** 1730 С LYS B1533 35.166 48.173 8.140 1.00 24.17 MOTA 1731 LYS B1533 35.982 47.369 0 8.592 1.00 24.48 В ATOM 1732 N ILE B1534 35.374 48.882 7.037 1.00 23.24 В ATOM 1733 36.605 48.775 CA ILE B1534 6.264 1.00 24.18 В MOTA 1734 ILE B1534 36.326 CB 48.206 4.856 1.00 25.08 В ATOM 1735 CG2 ILE B1534 37.633 48.049 4.090 1.00 25.82 В MOTA 1736 CG1 ILE B1534 46.860 1.00 25.24 35.604 4.967 R ATOM 1737 CD1 ILE B1534 35.219 46.258 3.627 1.00 25.28 В ATOM 1738 ILE B1534 6.111 С 37.204 50.169 1.00 23.73 В MOTA 1739 O ILE B1534 36.559 51.064 5.569 1.00 23.27 В MOTA 1740 N **ALA B1535** 38.430 50.351 6.591 1.00 24.35 В MOTA 1741 **ALA B1535** CA 39.100 51.645 6.489 1.00 24.68 В ATOM 1742 CB ALA B1535 . 40.416 51.615 7.254 1.00 24.73 В **ATOM** 1743 C **ALA B1535** 39.356 51.984 5.025 1.00 26.08 В **ATOM** 1744 0 ALA B1535 39.755 51.121 4.244 1.00 25.25 N . ATOM 1745 LYS B1536 39.125 4.655 53.242 1.00 26.80 R ATOM 1746 CA LYS B1536 39.335 53.681 3.279 1.00 27.59 ATOM 1747 CB LYS B1536 39.040 55.178 3.145 1.00 30.55 В ATOM 1748 CG LYS B1536 56.068 39.898 4.032 1.00 34.62 В ATOM 1749 CD LYS B1536 39.565 57.545 3.836 1.00 38.95 В MOTA 1750 CE LYS B1536 39.832 57.994 2.403 1.00 41.45 в ATOM 1751 ΝZ LYS B1536 39.531 59.441 2.196 1.00 43.50 В **ATOM** 1752 С LYS B1536 40.762 53.393 2.819 1.00 25.80 В ATOM 1753 0 LYS B1536 40.993 1.646 53.094 1.00 26.01 1754 ATOM N GLU B1537 41.716 53.485 3.741 1.00 24.83 В ATOM 1755 CA **GLU B1537** 43.110 53.219 3.409 1.00 24.45 В **ATOM** 1756 CB **GLU B1537** 44.029 53.519 4.600 1.00 27.10 R ATOM 1757 CG GLU B1537 44.110 54.984 5.023 1.00 31.85 ATOM 1758 CD **GLU B1537** 42.846 55.479 5.698 1.00 35.28 В OE1 GLU B1537 **ATOM** 1759 42.257 54.715 6.492 1.00 35.95 В **ATOM** 1760 OE2 GLU B1537 42.451 56.639 5.449 1.00 37.98 В ATOM 1761 С GLU B1537 43.281 3.007 51.756 1.00 22.80 **ATOM** 1762 0 GLU B1537 44.055 51.440 2.106 1.00 22.40 3.680 1.00 21.37 **ATOM** 1763 SER B1538 42.556 50.866

ATOM	1764	CA	SER B1538		42.641	49.440	3.382	.1.00 20.86	В
			SER B1538		41.781	48.644	4.366	1.00 21.09	В
ATOM	1765	CB							
ATOM	1766	OG	SER B1538		42.283	48.776	5.684	1.00 23.23	В
ATOM	1767	С	SER B1538		42.211	49.134	1.949	1.00 20.08	В
ATOM	1768	0	SER B1538		42.845	48.333	1.259	1.00 18.25	В
ATOM	1769	N	LEU B1539		41.130	49.769	1.508	1.00 19.51	В
ATOM	1770	CA	LEU B1539		40.635	49.577	.153	1.00 20.82	В
MOTA	1771	CB	LEU B1539		39.276	50.260	013	1.00 22.90	В
MOTA	1772	CG	LEU B1539		38.104	49.588	.708	1.00 24.42	В
ATOM	1773		LEU B1539		36.933	50.553	.816	1.00 26.46	В
								1.00 25.08	В
MOTA	1774		LEU B1539		37.705	48.326			
MOTA	1775	С	LEU B1539		41.638	50.159	839	1.00 20.41	В
ATOM	1776	0	LEU B1539		41.880	49.588	-1.903	1.00 20.85	В
ATOM	1777	N	ASP B1540		42.230	51.293	481	1.00 20.18	В
ATOM	1778	CA	ASP B1540	•	43.207			1.00 20.28	В
ATOM	1779	CB	ASP B1540		43.594	53.305	776	1.00 23.88	В
ATOM	1780	CG	ASP B1540		44.384	54.147	-1.761	1.00 26.54	В
MOTA	1781	OD1	ASP B1540		43.862	54.414	-2.865	1.00 29.37	В
ATOM	1782		ASP B1540		45.522	54.547		1.00 30.42	В
MOTA	1783	С	ASP B1540		44.453	51.060	-1.490	1.00 20.02	В
ATOM	1784	0	ASP B1540		45.038	50.967	-2.569	1.00 20.33	В
ATOM	1785	N	LYS B1541		44.851	50.413	399	1.00 19.20	В
ATOM	1786	CA	LYS B1541		46.035	49.556	405	1.00 19.77	В
						49.089			В
MOTA	1787		LYS B1541		46.356			1.00 21.48	
MOTA	1788	CG	LYS B1541		46.809	50.212	1.946	1.00 24.88	В
ATOM	1789	CD	LYS B1541		46.941	49.733	3.383	1.00 26.41	В
ATOM	1790	CE	LYS B1541		47.320	50.878	4.309	1.00 28.15	В
ATOM	1791	NZ	LYS B1541		47.277			1.00 31.20	В
ATOM	1792	С	LYS B1541		45.918	48.342		1.00 19.38	В
ATOM	1793	0	LYS B1541		46.923	47.879	-1.873	1.00 19.13	В
ATOM	1794	N	VAL B1542		44.701	47.836	-1.514	1.00 18.52	В
ATOM	1795	CA	VAL B1542		44.485	46.669		1.00 18.69	В
ATOM	1796	CB	VAL B1542		43.539	45.650	-1.685	1.00 18.33	В
ATOM	1797	CG1	VAL B1542		44.121	45.214	359	1.00 20.04	В
ATOM	1798	CG2	VAL B1542		42.162	46.264	-1.483	1.00 19.59	В
ATOM	1799	С	VAL B1542		43.906	47.015	-3.740	1.00 18.77	В
MOTA	1800	0	VAL B1542		43.557	46.123	-4.513	1.00 19.16	В
MOTA	1801	N	LYS B1543		43.822	48.309	-4.042	1.00 20.01	В
ATOM	1802	CA	LYS B1543		43.268	48.784	~5.312	1.00 21.69	В
ATOM	1803	CB	LYS B1543		43.488	50.299	-5.444	1.00 23.55	В
ATOM	1804	CG	LYS B1543		44.954	50.700	-5.482	1.00 28.56	В
ATOM	1805	CD	LYS B1543		45.158	52.205	-5.344	1.00 32.47	В
ATOM	1806	CE	LYS B1543		44.767	52.961	-6.600	1.00 35.65	В
ATOM	1807	NZ	LYS B1543		45.188	54.390	-6.512	1.00 38.75	В
ATOM	1808	C	LYS B1543		43.808	48.090	-6.564	1.00 20.66	В
MOTA	1809	0	LYS B1543		43.067	47.879	-7.525	1.00 21.57	В
ATOM	1810	N	ASN B1544		45.088	47.732	-6.556	1.00 20.57	В
ATOM	1811	CA	ASN B1544		45.698	47.090	-7.720	1.00 19.97	В
ATOM	1812	СВ	ASN B1544		47.010	47.795	-8.077	1.00 22.42	В
ATOM	1813	CG	ASN B1544		46.817	49.263	-8.392	1.00 24.61	
									В
MOTA	1814	OD1	ASN B1544		46.018	49.624	-9.257	1.00 26.96	В
ATOM	1815	ND2	ASN B1544		47.553	50.121	-7.692	1.00 26.00	В
ATOM	1816	С	ASN B1544		45.974	45.598	-7.566	1.00 18.50	В
ATOM	1817	ō	ASN B1544		46.583	44.989	-8.440	1.00 17.10	
									В
ATOM	1818	N	LEU B1545		45.518	45.007	-6.469	1.00 17.20	В
ATOM	1819	ÇA	LEU B1545		45.762	43.591	-6.217	1.00 16.66	В
ATOM	1820	СВ	LEU B1545		45.054	43.156	-4.929	1.00 16.31	В
ATOM	1821	CG	LEU B1545		45.166	41.665	-4.598	1.00 16.59	В
ATOM	1822		LEU B1545		46.622	41.300	-4.352	1.00 16.66	В
ATOM	1823	CD2	LEU B1545		44.319	41.347	-3.379	1.00 17.51	В
ATOM	1824	С	LEU B1545		45.362	42.637	-7.336	1.00 16.69	В
ATOM	1825	0	LEU B1545		46.047	41.641	-7.579	1.00 16.64	В
ATOM	1826	N	PHE B1546				-8.014		
					44.258	42.932		1.00 16.22	В
ATOM-	1827	CA	PHE B1546		43.775	42.047	•	1.00 17.49	В
ATOM	1828	СВ	PHE B1546		42.247	41.967	-8.998	1.00 15.66	В
ATOM	1829	CG	PHE B1546		41.737	41.417	-7.699	1.00 11.70	В
ATOM	1830		PHE B1546		41.945	40.081	-7.366	1.00 13.72	В
ATOM	1831		PHE B1546				-6.780		
U I OIL	1031	CDZ	1110 01340		41.099	42.243	0.760	1.00 13.72	· В

				•			•	
ATOM	1832	CE1	PHE	B1546	41.530	39.577 -6.137	1.00 14.70	В
ATOM	1833	CE2	PHE	B1546	40.680	41.748 -5.544	1.00 14.99	В
ATOM	1834	CZ		B1546	40.897	40.413 -5.223	1.00 14.37	В
MOTA	1835	C		B1546	44.225	42.384 -10.474	1.00 18.64	В
ATOM	1836	0		B1546	43.774 45.116	41.763 -11.432 43.358 -10.609	1.00 19.17 1.00 19.30	B B
ATOM	1837 1838	N CA		B1547	45.602	43.709 -11.934	1.00 13.30	В
ATOM ATOM	1839	CB		B1547	46.481	44.962 -11.901	1.00 25.04	В
ATOM	1840	CG		B1547	45.736	46.193 -11.447	1.00 28.33	В
ATOM	1841			B1547	44.491	46.212 -11.535	1.00 30.07	В
ATOM	1842	OD2	ASP	B1547	46.408	47.155 -11.016	1.00 32.49	В
ATOM	1843	С		B1547	46.437	42.557 -12.464	1.00 22.48	В
ATOM	1844	0		B1547	47.139	41.882 -11.712	1.00 24.30	В
ATOM	1845	N		B1548	46.346	42.329 -13.765	1.00 22.96 1.00 22.18-	B B
MOTA	1846 1847	CA CB		B1548	47.118 46.195	41.288 -14.413 40.276 -15.095	1.00 22.18	8
ATOM ATOM	1848	CG		B1548		39.459 -14.099	1.00 21.84	В
ATOM	1849	CD		B1548	44.480	38.444 -14.759	1.00 21.72	В
ATOM	1850			B1548	43.684	38.844 -15.632	1.00 20.97	В
MOTA	1851	OE2	GLU	B1548	44.558	37.251 -14.396	1.00 23.36	В
MOTA	1852	С		B1548		42.024 -15.422	1.00 23.17	В
ATOM	1853	0		B1548	47.867	41.829 -16.633	1.00 24.15	В
ATOM	1854	N		B1549	48.825	42.901 -14.886	1.00 22.17 1.00 22.56	В В
MOTA	1855 1856	CA		B1549 B1549	49.742 50.412	43.713 -15.671 44.764 -14.781	1.00 22.36	В
ATOM ATOM	1857	CB CG		B1549	49.486	45.834 -14.236	1.00 29.70	В
ATOM	1858	CD		B1549	49.077	46.801 -15.325	1.00 33.15	В
ATOM	1859	CE		B1549	48.328	47.985 -14.745	1.00 36.67	В
ATOM	1860	NZ	LYS	B1549	49.149	48.714 -13.739	1.00 40.31	В
ATOM	1861	С		B1549	50.822	42.838 -16.275	1.00 20.74	В
ATOM	1862	0		B1549	51.222	41.832 -15.687	1.00 20.95	В
ATOM	1863	N		B1550	51.295	43.223 -17.452	1.00 19.67	В
ATOM	1864 1865	CA CB		B1550 B1550	52.353 52.577	42.472 -18.099 42.987 -19.518	1.00 20.42 1.00 21.71	B B
ATOM ATOM	1866	CG		B1550	51.559	42.447 -20.510	1.00 25.16	В
ATOM	1867	CD		B1550	51.666	43.101 -21.867	1.00 27.14	В
ATOM	1868			B1550	52.801	43.271 -22.360	1.00 28.85	В
ATOM .	1869	OE2	GLU	B1550	50.611	43.440 -22.443	1.00 30.89	В
MOTA	1870	С		B1550	53.610	42.632 -17.258	1.00 20.42	В
ATOM	1871	0		B1550	53.912	43.722 -16.769	1.00 21.55	В
ATOM ATOM	1872 1873	N		B1551	54.329 55.542	41.532 -17.082 41.516 -16.286	1.00 19.31 1.00 20.35	B B
ATOM	1874	CA CB		B1551 B1551	55.559	40.255 -15.422	1.00 20.33	В
ATOM	1875	CG		B1551	54.349	40.114 -14.521	1.00 19.34	В
MOTA	1876	CD		B1551	54.267	41.231 -13.504	1.00 22.39	В.
MOTA	1877	OE1	GLN	B1551	55.221	41.481 -12.770	1.00 21.26	В
MOTA	1878	NE2		B1551	53.127	41.908 -13.455	1.00 22.77	В
MOTA	1879	C.		B1551	56.782	41.541 -17.170	1.00 21.10	В
ATOM ATOM	1880 1881	0		B1551 B1552	56.683 57.949	41.486 -18.395 41.639 -16.544	1.00 21.97 1.00 22.64	8 B
ATOM .	1882	N CA		B1552	59.201	41.634 -17.288	1.00 22.04	В
ATOM	1883	CB		B1552	60.332	42.316 -16.497	1.00 27.42	В
ATOM	1884			B1552	59.999	43.692 -16.281	1.00 29.24	В
ATOM	1885	CG2	THR	B1552	61.645	42.228 -17.265	1.00 27.94	В
ATOM	1886	С		B1552	59.567	40.172 -17.505		В
ATOM	1887	0		B1552	59.769	39.432 -16.545	1.00 25.65	В
ATOM	1888	N C P		B1553	59.637	39.756 -18.764	1.00 25.65	В
ATOM ATOM	1889 1890	CA C		B1553 B1553	59.967 61.378	38.373 -19.057 38.190 -19.573	1.00 25.06 1.00 26.56	B B
ATOM	1891	0		B1553	61.927	39.065 -20.242	1.00 26.36	В
ATOM	1892			B1554	61.972	37.046 -19.255	1.00 28.84	В
ATOM	1893	CA		B1554	63.325	36.743 -19.702	1.00 30.62	. B
ATOM	1894	СВ		B1554	64.346	37.283 -18.696	1.00 32.10	В
ATOM	1895	OG		B1554	64.127	36.745 -17.401	1.00 33.78	В
ATOM	1896	C		B1554	63.510	35.238 -19.872	1.00 30.37	В
ATOM ATOM	1897 1898	O OXT		B1554 B1554	62.646 64.523	34.475 -19.388 34.841 -20.486	1.00 31.99 1.00 33.32	B B
ATOM	1899	C	GLY		23.040	64.501 10.728	1.00 33.32	C

ATOM	1900	0	GLY	C 1	22.550	63.402	10.981	1.00	24.58
ATOM	1901	N	GLY		23.653	64.653			26.62
ATOM	1902	CA	GLY		23.720	65.313		1.00	25.97
ATOM	1903	N	SER		23.029	65.034	9.509	1.00	24.78
ATOM	1904	CA	SER	C 2	22.384	64.364	8.385	1.00	25.77
ATOM	1905	CB	SER		21.632	65.390	7.535	1.00	24.41
ATOM	1906	OG	SER		20.677	66.091	8.309	1.00	23.97
ATOM	1907	С	SER	C 2	23.325	63.569	7.486	1.00	
ATOM	1908	0	SER	C 2	22.896	63.028	6.467	1.00	25.80
ATOM	1909	N	MSE	C 3	24.601	63.496	7.847	1.00	
MOTA	1910	CA	MSE	C 3	25.553	62.751	7.031	1.00	
ATOM	1911	CB		C 3	26.938	62.778			
ATOM	1912	CG		C 3	28.000	62.090	6.840	1.00	
ATOM	1913	SE		C 3	29.693	62.045		1.00	
ATOM	1914	CE		C 3	30.391	63.745			43.04
ATOM	1915	C		C 3	25.087	61.305		1.00	
ATOM	1916	0		C 3	24.652	60.685			32.94
ATOM	1917	N	GLY		25.182	60.771	5.665	1.00	
ATOM	1918	CA	GLY		24.754	59.401	5.437	1.00	
ATOM	1919	C	GLY		25.681	58.384	6.070 6.213	1.00	
ATOM	1920	O OXT	GLY		26.885 25.207	58.684 57.277	6.411	1.00	
ATOM ATOM	1921 1922	0	HOH	1	27.203	32.665	-8.545	1.00	
ATOM	1923	Ö	НОН	2	31.152	37.373		1.00	
ATOM	1924		- HOH	. 3	24.813	29.097	1.505	1.00	
ATOM	1925	ŏ	нон	4	41.055	25.105	319	1.00	
ATOM	1926	Ö	нон	5	43.681	37.645	6.233	1.00	
ATOM	1927	ŏ	нон	6	45.327	22.607	11.105	1.00	
ATOM	1928	ō	нон -		39.600	31.034		1.00	13.20
ATOM	1929	o .	нон	8	43.640	26.446	-6.581	1.00	14.05
ATOM	1930	Ó	нон	9	25.339	14.708	-6.366	1.00	21.76
ATOM	1931	0	нон	10	47.852	25.013	18.123	1.00	15.00
ATOM	1932	0	нон	11	 41.038	31.746	-16.720	1.00	15.00
ATOM	1933	0	нон	12	34.703	38.853	-12.674	1.00	14.66
ATOM	1934	0	нон	13	41.935	21.373	230	1.00	15.53
MOTA	1935	0	нон	14	33.052	8.732	7.686	1.00	17.18
MOTA	1936	0	нон	15	29.065	32.805	23.625	1.00	
ATOM	1937	0	нон	16	39.100	42.813	8.664	1.00	24.97
ATOM	1938	0	нон	17	45.225	34.430	-10.500	1.00	14.90
ATOM	1939	0	нон	18	34.758	6.368	4.080	1.00	20.01
ATOM	1940	0	нон	19	27.240	27.751	20.443	1.00	
ATOM	1941	0	нон	20	50.907		-16.750	1.00	
ATOM	1942	0	нон .	21	47.270	47.282	-4.465		21.63
ATOM ATOM	1943 1944	0	HOH	22 23	40.136	25.218 8.662	21.558 10.277	1.00	19.04
ATOM	1945	0	нон Нон	24	42.725	45.381	-8.655	1.00	18.32 27.15
ATOM	1946	Ö	нон	25	40.507		-10.534	1.00	
ATOM	1947	ŏ	нон	26	28.530	16.165	13.719		33.54
ATOM	1948	ŏ	нон	27	49.779	14.277	1.640		26.13
ATOM	1949	.0	нон	28	37.754	17.604	13.513		21.28
ATOM	1950	0	нон	29	25.719	40.907	4.909		26.13
ATOM	1951	0	HOH.	30	46.444		-14.485		30.70
MOTA	1952	0	нон	31	42.905	22.704	-2.761		21.06
ATOM	1953	0	нон	32	45.201	36.882	-11.552	1.00	28.24
MOTA	1954	Ο.	нон	33	25.649	19.886	8.886	1.00	28.23
MOTA	1955	0	нон	34	26.045	10.696	12.207	1.00	26.17
ATOM	1956	Ο,	нон	35	32.469	36.471	23.268	1.00	30.94
MOTA	1957	0	нон	36	45.943	28.640	19.548	1.00	23.84
ATOM	1958	0	HOH .	37	43.494		-16.264		19.57
ATOM	1959	0	нон	38	40.052	27.988	21.059		19.96
ATOM	1960	0	нон	. 39	30.163	11.427	-5.817		23.16
ATOM	1961	0	нон	40	22.655	26.060	-1.019		25.88
ATOM	1962	0	HOH	41	47.443	25.123	-1.056		26.06
ATOM ATOM	1963 1964	0	HOH	42	43.351		-10.710		31.36
ATOM	1964	0	нон Нон	43 44	47.439	22.148	9.534 3.837		23.85
ATOM	1966	0	НОН	45	39.265 29.442	8.211 47.107	13.465		24.72 28.59
ATOM	1967	0	нон	46	49.276	48.894	-1.723		23.41
		-		, ,		10.034	2.,23	1.00	41

ATOM	1968	0	нон	47		36.013	33.810	24.513	1.00	26.17
MOTA	1969	0	нон	48		41.724	36.31	13.254		25.30
MOTA	1970	0	нон	49		38.645	15.363			24.55
ATOM	1971	0	нон	50		31.955	12.217			26.51
MOTA	1972	.0	нон	51 52		45.068 43.052	55.619 19.153			27.50
ATOM ATOM	1973 1974	0	нон Нон	52 53		45.777		7 -12.641		28.74
ATOM	1975	ō	нон	54		28.793	15.549			26.71
ATOM	1976	0	нон	55		49.821		-12.216		30.32
MOTA	1977	0	нон	56		21.473	35.733			21.73
ATOM	1978	0	нон	57		42.925	18.920			30.56
ATOM	1979	0	нон	58		28.680	098			24.41
ATOM ATOM	1980 1981	0	нон Нон	59 60		30.575 17.766	22.738			28.00
ATOM	1982	0	нон	61		49.649	49.378		•	38.05
ATOM	1983	ò	нон	62		47.518	52.219			26.66
ATOM	1984	0	нон	63		41.787	11.851			31.75
ATOM	:1985	0	нон	64		19.342	13.836			26.81
ATOM	1986	0	НОН	65		28.428	11.606		1.00	
ATOM	1987	0	нон	66		26.186	41.935			29.32
ATOM	1988 1989	0	- НОН НОН	67 68		29.916 32.525	3.091	. 12.731 ! -19.919	1.00	35.96 28.79
ATOM ATOM	1990	o	нон	69		23.391	12.991			27.70
ATOM	1991	o		70		37.988	45.231			31.23
ATOM	1992	0	нон	71		51.112	27.635		1.00	27.13
ATOM	1993	0	нон	72		44.253		-13.637	1.00	
ATOM	1994	0	нон	73		50.881	30.964		1.00	
ATOM	1995	0	нон	74		40.933		-10.989		42.43
ATOM	1996 [.] 1997	0	нон Нон	75 76		27.184 34.540	22.223 39.110		1.00	27.88 40.78
ATOM	1998	0	нон	77		46.502	22.169		1.00	
ATOM	1999	ō	нон	78		53.219		-17.171		28.75
ATOM	2000	0	нон	79		26.474	24.441	-5.560		27.23
ATOM	2001	0	нон	80		21.166	23.641		1.00	
ATOM	2002	0	нон	81		46.816	32.597		1.00	
ATOM	2003	0	нон	82		29.879	14.101		1.00	31.68
ATOM ATOM	2004 2005	0	нон Нон	83 84		21.692 29.295	33.500 27.121		1.00	
ATOM	2005	ō	нон	85		28.731	12.779		1.00	38.33
ATOM	2007	ŏ	нон	86		27.280	16.834		1.00	
ATOM	2008	0	нон	87		26.071	25.682	-7.687	1.00	35.23
MOTA	2009	0	нон	88		31.705	45.557		1.00	
ATOM	2010	0	нон	89		42.737		-16.494	1.00	
ATOM	2011	0	HOH	90		35.195	13.995		1.00	34.72
ATOM ATOM	2012 2013	0	нон Нон	91 92	•	49.946 49.674	15.137	-18.866 4.173	1.00	29.05 42.43
ATOM	2013	o	нон	93	•	24.992	40.863	2.394	1.00	29.44
ATOM	2015	ō	нон	94		35.938	29.931			33.47
MOTA	2016	0	нон	95		36.358	31.790			38.64
ATOM	2017	0	HOH-	96		47.419	54.724	-3.794		29.22
ATOM	2018	0	нон	97		47.298		-13.959		27.59
ATOM ATOM	2019	0	нон	98		49.410	31.445	598		37.89
ATOM	2020 2021	0	нон Нон	99 100		32.034 46.589	20.057	-10.298 12.718		32.29 35.82
ATOM	2022	ŏ	нон	101		40.404	18.582	19.335		37.38
ATOM	2023	0	нон	102		36.397	37.290	23.171		38.30
ATOM	2024	0	нон	103		45.419.	35.806	6.232	1.00	39.97
ATOM	2025	0	нон	104		39.400	18.431	15.599		28.80
ATOM	2026	0	нон	105		32.747	22.249	25.771		35.21
ATOM ATOM	2027 2028	0	нон нон	106 107		31.993 36.965	43.225	-12.811		31.67
ATOM	2028	0	нон	107		28.311	37.534	8.934 18.638		34.98 41.87
ATOM	2030	ŏ	нон	109		43.152		-17.014		34.31
ATOM	2031	0	нон	110		36.900	23.769	24.433		36.25
ATOM	2032	0	нон	111		22.163	15.646	14.398	1.00	36.85
ATOM	2033	0	нон	112		35.492	21.090	24.155		42.67
ATOM	2034	0	нон	113		48.632	28.953	2.985		31.18
MOTA	2035	0	нон	114		39.959	28.401	-13.559	1.00	38.45

AT	OM 2	036	О но	н 115	32.211 44.343 12.977 1.00 35.11
ATO	OM 2	037	O HO	H· 116	57.018 43.358 -20.359 1.00 34.09
ATO	OM 2	038	O HO	H 117	43.928 36.491 15.046 1.00 44.76
ATO	DM 2	039	O HO	H 118	41.009 17.495 -8.021 1.00 28.89
ATO		040	O HO		. 47.866 53.440 6.326 1.00 43.86
ATO	DM 20	041	O HOH	1 120	10 11
ATO	OM 20	142	10H 0		
ATC	M 20	143	о нон		11.175 1.00 33.75
ATC	M 20	44	о нон		43 300
ATC	M 20	45	о нон		2.302 1.00 33.28
ATC	M 20	46	о нон		
ATO	M 20	47	о нон		
ATO	M 20		о нон		2.00 30.10
ATO	M 20		о нон		
ATO	M 20		нон с		23.33, 1.00 36.33
ATO			нон С		^^ ^
ATO	M 20	52 (нон С		
ATO	M 20		нон С		7.070 1.00 42.41
ATO			нон С		
ATO	M 20				2
ATO					2.00 15.20
ATO				136	13.245 1.00 37.77
OTA				137	20.101 1.00 32.13
ATON				138	
ATON				139	
ATOM				140	23.782 47.257 8.875 1.00 36.18
ATOM		-		141	40.071 29.109 18.652 1.00 36.37
ATOM				142	50.037 23.125 9.649 1.00 45.98
ATOM				143	19.583 34.873 10.411 1.00 47.78
ATOM				144	43.464 17.607 18.095 1.00 47.57
ATOM				145	25.361 15.356 16.333 1.00 41.25
ATOM			нон	146	28.757 38.927 -17.342 1.00 34.49
ATOM			нон	147	23.938 -1.305 12.858 1.00 51.98
ATOM			нон	148	33.517 18.774 -13.399 1.00 46.54
ATOM		_	нон	149	49.091 33.188 18.209 1.00 46.77
ATOM			нон	150	50.357 27.234902 1.00 40.05
ATOM	207:		нон	151	25.608 6.521 -2.912 1.00 43.02
ATOM	207		нон	152	38.264 4.869 -2.160 1.00 38.27
ATOM	207		нон	153	62.716 38.725 -15.633 1.00 47.64
ATOM	2079	_	нон	154	47.852 13.446 6.230 1.00 45.10
ATOM	2076	_	нон	155	30.371 42.873 -21.841 1.00 49.83
ATOM	2077		НОН	156	25.807 26.178 -10.206 1.00 41.92
ATOM	2078		нон	157	20.377 17.443 -2.962 1.00 37.23
ATOM	2079	-	нон	158	26.310 19.158 -9.197 1.00 40.75
ATOM	2080		нон	159	44.764 43.862 -15.074 1.00 46.84
ATOM	2081	-	нон	160	38.089 28.511 23.290 1.00 52.16
ATOM	2082		нон	161	39.671 34.256 14.970 1.00 52.34
ATOM	2083	_	нон	162	20.912 34.446 6.722 1.00 51.80
ATOM	2084		нон	163	47.355 17.692 16.464 1.00 44.35 40.877 24.164 -19.590 1.00 50.62
ATOM	2085		нон	164	20 50,02
ATOM	2086		нон	165	2,302 1.00 43.77
ATOM	2087	o	нон	166	0.030 1.00 40.71
ATOM	2088	0	нон	167	11.102 1.00 49.75
ATOM	2089	O	нон	168	20 11.10
ATOM	2090	ō	нон	169	
ATOM	2091	o	нон	170	1,00 47.88
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ATOM	2093	ō	нон	172	45.555 18.839 .687 1.00 36.06
ATOM	2094	ŏ	нон -	173	35.456 41.167 -13.948 1.00 25.05 31.200 38.910 -25.308 1.00 37.28
ATOM	2095	Ö	нон	174	2:00 37.20
ATOM	2096	ō	нон	175	10.700 1.00 36,99
ATOM	2097	ō	нон	176	13:303 1:00 39.58
ATOM	2098	ŏ		177	37.903 17.801 18.592 1.00 48.95 43.747 13.395 8.035 1.00 38.49
ATOM	2099	ō		178	2.00 39.40
MOTA	2100	ō		179	
ATOM	2101	ŏ		180	1.00 37.02
ATOM	2102	ō		181	2.015 1.00 45.02
ATOM	2103	ō		182	23.110 1.00 42.44
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ATOM 2104 0 HOR 183 20.394 26.531 -2.994 1.00 45.01 ATOM 2105 0 HOR 184 46.284 41.009 9.919 1.00 41.10 ATOM 2106 0 HOR 185 47.034 40.049 -9.804 1.00 36.98 ATOM 2108 0 HOR 187 25.126 33.755 20.531 1.00 41.10 ATOM 2109 0 HOR 187 25.126 33.755 20.531 1.00 41.68 ATOM 2109 0 HOR 189 45.660 12.088 6.545 1.00 47.03 ATOM 2110 0 HOR 189 53.064 31.023 -2.009 1.00 44.55 ATOM 2111 0 HOR 199 53.064 31.023 -2.009 1.00 44.55 ATOM 2112 0 HOR 191 47.488 40.412 5.641 1.00 36.78 ATOM 2113 0 HOR 193 32.823 6.238 8.957 1.00 36.78 ATOM 2114 0 HOR 193 32.823 6.238 8.957 1.00 31.69 ATOM 2115 0 HOR 195 22.948 2.717 3.211 1.00 41.21 ATOM 2116 0 HOR 195 25.948 2.717 3.211 1.00 41.21 ATOM 2117 0 HOR 195 25.948 2.717 3.211 1.00 41.21 ATOM 2118 0 HOR 197 25.655 4.669 -498 1.00 41.01 ATOM 2119 0 HOR 199 51.572 32.788 -1.315 1.00 42.97 ATOM 2120 0 HOR 199 51.572 32.788 -1.315 1.00 41.21 ATOM 2121 0 HOR 201 55.135 44.572 -21.602 1.00 41.65 ATOM 2122 0 HOR 201 55.135 44.572 -21.602 1.00 41.57 ATOM 2123 0 HOR 203 37.549 6.250 2.375 1.00 38.07 ATOM 2124 0 HOR 203 37.549 6.250 2.375 1.00 38.07 ATOM 2125 0 HOR 203 37.549 6.250 2.375 1.00 38.07 ATOM 2126 0 HOR 207 37.677 35.948 18.903 1.00 45.51 ATOM 2127 0 HOR 207 37.677 35.948 18.903 1.00 45.51 ATOM 2128 0 HOR 207 37.677 35.948 18.903 1.00 45.54 ATOM 2129 0 HOR 207 37.677 35.948 18.903 1.00 45.51 ATOM 2121 0 HOR 208 33.7549 6.250 2.375 1.00 38.07 ATOM 2123 0 HOR 207 37.677 35.948 18.903 1.00 45.51 ATOM 2124 0 HOR 208 43.7677 35.948 18.903 1.00 45.54 ATOM 2125 0 HOR 207 37.677 35.948 18.903 1.00 45.54 ATOM 2121 0 HOR 208 43.7677 35.949 18.903 1.00 45.54 ATOM 2121 0 HOR 208 43.7677 35.949 18.903 1.00 45.54 ATOM 2123 0 HOR 207 37.677 35.949 18.903 1.00 45.54 ATOM 2124 0 HOR 208 43.7677 35.949 18.903 1.00 45.54 ATOM 2125 0 HOR 208 42.777 42.9648 2.106 1.00 45.34 ATOM 2126 0 HOR 208 43.777 42.9648 2.106 1.00 45.34 ATOM 2127 0 HOR 208 43.777 42.9648 2.106 1.00 45.34 ATOM 2128 0 HOR 207 47.767 44.579 19.479 19.479 19.479 19.479 19.479 19.479 19.479 19.479 19.479 19.479 19.479 19.479 19.479 19.479 19.479	é	in 1	1701	i ka	***	ر ر ء		, .•			
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ATOM 2149 O HOH 218 47.679 19.437 9.176 1.00 46.30 ATOM 2141 O HOH 219 49.467 32.411 20.725 1.00 49.57 ATOM 2142 O HOH 221 51.817 27.969 14.989 1.00 45.36 ATOM 2143 O HOH 222 45.303 19.657 10.595 1.00 50.38 ATOM 2144 O HOH 223 37.514 51.784 9.970 1.00 45.01 ATOM 2145 O HOH 224 23.691 17.281 -6.725 1.00 34.27 ATOM 2146 O HOH 225 39.832 6.213 -0.04 1.00 43.18 ATOM 2147 O HOH 226 14.435 31.992 6.539 1.00 40.54 ATOM 2148 O HOH 227 28.440 3.081375 1.00 40.66 ATOM 2149 O HOH 228 32.185 1.604032 1.00 39.88 ATOM 2150 O HOH 230 43.339 48.665 -10.895 1.00 40.50 ATOM 2151 O HOH 230 43.339 48.665 -10.895 1.00 40.50 ATOM 2152 O HOH 231 48.992 42.900 -8.868 1.00 40.18 ATOM 2155 O HOH 233 45.885 49.961 -12.873 1.00 42.42 ATOM 2155 O HOH 234 21.172 36.234 8.566 1.00 38.58 ATOM 2155 O HOH 234 21.172 36.234 8.566 1.00 38.58 ATOM 2155 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2155 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2155 O HOH 237 48.544 43.963 6.735 1.00 41.71 ATOM 2155 O HOH 237 48.544 43.963 6.735 1.00 41.71 ATOM 2156 O HOH 237 48.544 43.963 6.735 1.00 41.71 ATOM 2157 O HOH 238 37.971 55.166 6.733 1.00 39.07 ATOM 2158 O HOH 237 48.544 43.963 6.735 1.00 41.71 ATOM 2160 O HOH 240 36.473 38.193 18.321 1.00 37.76 ATOM 2160 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2160 O HOH 241 25.507 41.267 -12.919 1.00 35.74 ATOM 2165 O HOH 244 29.532 27.579 -16.268 1.00 37.76 ATOM 2166 O HOH 244 29.532 27.579 -16.268 1.00 35.74 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2168 O HOH 246 24.886 49.944 8.651 1.00 32.24											
ATOM 2141 O HOH 219	ATOM										
ATOM 2142 O HOH 220						•	49.467	7			
ATOM 2143 O HOH 222 45.303 19.657 10.595 1.00 45.36 ATOM 2144 O HOH 223 37.514 51.784 9.970 1.00 45.01 ATOM 2145 O HOH 224 23.691 17.281 -6.725 1.00 34.27 ATOM 2146 O HOH 225 39.832 6.213004 1.00 43.18 ATOM 2147 O HOH 226 14.435 31.992 6.539 1.00 40.54 ATOM 2148 O HOH 227 28.440 3.081 -375 1.00 40.66 ATOM 2149 O HOH 228 32.185 1.604032 1.00 39.88 ATOM 2150 O HOH 229 31.504 47.620 2.802 1.00 38.71 ATOM 2151 O HOH 230 43.339 48.665 -10.895 1.00 40.50 ATOM 2153 O HOH 231 48.992 42.900 -8.868 1.00 40.50 ATOM 2154 O HOH 233 45.885 49.961 -12.873 1.00 42.42 ATOM 2155 O HOH 234 21.172 36.234 8.566 1.00 42.42 ATOM 2156 O HOH 235 19.309 10.393 10.198 1.00 38.58 ATOM 2157 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2158 O HOH 237 48.544 43.963 6.735 1.00 41.80 ATOM 2159 O HOH 238 37.971 55.166 6.733 1.00 39.07 ATOM 2160 O HOH 239 32.689 38.646 24.608 1.00 39.11 ATOM 2161 O HOH 240 36.473 38.193 18.321 1.00 39.07 ATOM 2163 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33									48.980		
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ATOM 2146 O HOH 225 39.832 6.213004 1.00 43.18 ATOM 2148 O HOH 226 14.435 31.992 6.539 1.00 40.54 ATOM 2149 O HOH 227 28.440 3.081375 1.00 40.66 ATOM 2150 O HOH 228 32.185 1.604032 1.00 39.88 ATOM 2151 O HOH 230 43.339 48.665 -10.895 1.00 40.50 ATOM 2152 O HOH 231 48.992 42.900 -8.868 1.00 40.18 ATOM 2153 O HOH 232 50.311 46.431 -10.063 1.00 38.69 ATOM 2154 O HOH 233 45.885 49.961 -12.873 1.00 42.42 ATOM 2155 O HOH 234 21.172 36.234 8.566 1.00 42.66 ATOM 2156 O HOH 235 19.309 10.393 10.198 1.00 38.58 ATOM 2157 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2158 O HOH 237 48.544 43.963 6.735 1.00 41.80 ATOM 2159 O HOH 239 32.689 38.646 24.608 1.00 39.07 ATOM 2160 O HOH 240 36.473 38.193 18.321 1.00 41.71 ATOM 2163 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 247 33.171 50.567 6.460 1.00 35.74 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.70 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2169 C1 EDO 1 48.324 27.636 18.334 1.00 32.24											1.00 45.01
ATOM 2148 O HOH 227 28.440 3.081375 1.00 40.54 ATOM 2149 O HOH 228 32.185 1.604032 1.00 39.88 ATOM 2150 O HOH 229 31.504 47.620 2.802 1.00 38.71 ATOM 2151 O HOH 230 43.339 48.665 -10.895 1.00 40.50 ATOM 2152 O HOH 231 48.992 42.900 -8.868 1.00 40.18 ATOM 2153 O HOH 232 50.311 46.431 -10.063 1.00 38.69 ATOM 2154 O HOH 233 45.885 49.961 -12.873 1.00 42.42 ATOM 2155 O HOH 234 21.172 36.234 8.566 1.00 42.66 ATOM 2156 O HOH 235 19.309 10.393 10.198 1.00 38.58 ATOM 2157 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2159 O HOH 238 37.971 55.166 6.733 1.00 39.07 ATOM 2150 O HOH 239 32.689 38.646 24.608 1.00 39.11 ATOM 2161 O HOH 240 36.473 38.193 18.321 1.00 41.71 ATOM 2163 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2166 O HOH 242 23.143 35.618 -15.172 1.00 39.82 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 37.76 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 37.76 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 48.324 27.636 18.334 1.00 32.33							39.832		6.213	004	1.00 43.18
ATOM 2149 O HOH 228 32.185 1.604032 1.00 40.66 ATOM 2150 O HOH 229 31.504 47.620 2.802 1.00 38.71 ATOM 2151 O HOH 230 43.339 48.665 -10.895 1.00 40.50 ATOM 2152 O HOH 231 48.992 42.900 -8.868 1.00 40.18 ATOM 2153 O HOH 232 50.311 46.431 -10.063 1.00 38.69 ATOM 2154 O HOH 233 45.885 49.961 -12.873 1.00 42.42 ATOM 2155 O HOH 234 21.172 36.234 8.566 1.00 42.66 ATOM 2156 O HOH 235 19.309 10.393 10.198 1.00 38.58 ATOM 2157 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2158 O HOH 237 48.544 43.963 6.735 1.00 41.80 ATOM 2159 O HOH 238 37.971 55.166 6.733 1.00 39.07 ATOM 2160 O HOH 239 32.689 38.646 24.608 1.00 39.11 ATOM 2163 O HOH 240 36.473 38.193 18.321 1.00 41.71 ATOM 2163 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2163 O HOH 242 23.143 35.618 -15.172 1.00 39.82 ATOM 2165 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2165 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 247 33.171 50.567 6.460 1.00 35.74 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.74 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.74 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33								;	31.992	6.539	. 1.00 40.54
ATOM 2150 O HOH 229 31.504 47.620 2.802 1.00 38.71 ATOM 2151 O HOH 230 43.339 48.665 -10.895 1.00 40.50 ATOM 2152 O HOH 231 48.992 42.900 -8.868 1.00 40.18 ATOM 2153 O HOH 232 50.311 46.431 -10.063 1.00 38.69 ATOM 2154 O HOH 233 45.885 49.961 -12.873 1.00 42.42 ATOM 2155 O HOH 234 21.172 36.234 8.566 1.00 42.66 ATOM 2156 O HOH 235 19.309 10.393 10.198 1.00 38.58 ATOM 2157 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2158 O HOH 237 48.544 43.963 6.735 1.00 41.80 ATOM 2159 O HOH 238 37.971 55.166 6.733 1.00 39.07 ATOM 2160 O HOH 239 32.689 38.646 24.608 1.00 39.11 ATOM 2161 O HOH 240 36.473 38.193 18.321 1.00 41.71 ATOM 2163 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2164 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2165 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 247 33.171 50.567 6.460 1.00 35.74 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 48.324 27.636 18.334 1.00 32.24							28.440		3.081	375	1.00 40.66
ATOM 2151 O HOH 230 43.339 48.665 -10.895 1.00 40.50 ATOM 2152 O HOH 231 48.992 42.900 -8.868 1.00 40.18 ATOM 2153 O HOH 232 50.311 46.431 -10.063 1.00 38.69 ATOM 2154 O HOH 233 45.885 49.961 -12.873 1.00 42.42 ATOM 2155 O HOH 234 21.172 36.234 8.566 1.00 42.66 ATOM 2156 O HOH 235 19.309 10.393 10.198 1.00 38.58 ATOM 2157 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2158 O HOH 237 48.544 43.963 6.735 1.00 41.80 ATOM 2159 O HOH 238 37.971 55.166 6.733 1.00 39.07 ATOM 2160 O HOH 239 32.689 38.646 24.608 1.00 39.11 ATOM 2161 O HOH 240 36.473 38.193 18.321 1.00 41.71 ATOM 2162 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2163 O HOH 242 23.143 35.618 -15.172 1.00 39.82 ATOM 2165 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2165 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 37.76 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24									1.604		1.00 39.88
ATOM 2153 O HOH 231			-		230			4	18.665 -	10.895	1.00 38.71
ATOM 2154 O HOH 233								4	12.900	-8.868	1.00 40.18
ATOM 2155 O HOH 234 21.172 36.234 8.566 1.00 42.66 ATOM 2156 O HOH 235 19.309 10.393 10.198 1.00 38.58 ATOM 2157 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2158 O HOH 237 48.544 43.963 6.735 1.00 41.80 ATOM 2159 O HOH 238 37.971 55.166 6.733 1.00 39.07 ATOM 2160 O HOH 239 32.689 38.646 24.608 1.00 39.11 ATOM 2161 O HOH 240 36.473 38.193 18.321 1.00 41.71 ATOM 2162 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2163 O HOH 242 23.143 35.618 -15.172 1.00 39.82 ATOM 2165 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24								4	6.431 -	10.063	1.00 38.69
ATOM 2156 O HOH 235 19.309 10.393 10.198 1.00 38.58 ATOM 2157 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2158 O HOH 237 48.544 43.963 6.735 1.00 41.80 ATOM 2159 O HOH 238 37.971 55.166 6.733 1.00 39.07 ATOM 2160 O HOH 239 32.689 38.646 24.608 1.00 39.11 ATOM 2161 O HOH 240 36.473 38.193 18.321 1.00 41.71 ATOM 2162 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2163 O HOH 242 23.143 35.618 -15.172 1.00 39.82 ATOM 2165 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2165 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24								4	9.961 -:		1.00 42.42
ATOM 2157 O HOH 236 35.310 7.159 11.114 1.00 38.88 ATOM 2158 O HOH 237 48.544 43.963 6.735 1.00 41.80 ATOM 2159 O HOH 238 37.971 55.166 6.733 1.00 39.07 ATOM 2160 O HOH 240 36.473 38.193 18.321 1.00 39.11 ATOM 2162 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2163 O HOH 242 23.143 35.618 -15.172 1.00 39.82 ATOM 2165 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2167 O HOH 246 24.886 49.944 8.651 1.00 37.76 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24											1.00 42.66
ATOM 2159 O HOH 237							35.310		7.159 1	1.114	1.00 38.88
ATOM 2160 O HOH 239 32.689 38.646 24.608 1.00 39.11 ATOM 2161 O HOH 240 36.473 38.193 18.321 1.00 41.71 ATOM 2162 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2163 O HOH 242 23.143 35.618 -15.172 1.00 39.82 ATOM 2164 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2165 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2167 O HOH 246 24.886 49.944 8.651 1.00 37.76 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24								4	3.963		1.00 41.80
ATOM 2161 O HOH 240 36.473 38.193 18.321 1.00 41.71 ATOM 2162 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2163 O HOH 242 23.143 35.618 -15.172 1.00 39.82 ATOM 2164 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2165 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2167 O HOH 246 24.886 49.944 8.651 1.00 37.76 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24											1.00 39.07
ATOM 2162 O HOH 241 25.507 41.267 -12.919 1.00 35.13 ATOM 2163 O HOH 242 23.143 35.618 -15.172 1.00 39.82 ATOM 2164 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2165 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2167 O HOH 246 24.886 49.944 8.651 1.00 37.76 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24		2161					36,473				1.00 39.11
ATOM 2163 O HOH 242 23.143 35.618 -15.172 1.00 39.82 ATOM 2164 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2165 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2168 O HOH 246 24.886 49.944 8.651 1.00 37.76 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24				нон			25.507			2.919	1.00 41.71
ATOM 2164 O HOH 243 49.140 33.897 5.783 1.00 40.42 ATOM 2165 O HOH 244 29.532 27.579 -16.268 1.00 39.77 ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 35.74 ATOM 2168 O HOH 246 24.886 49.944 8.651 1.00 37.76 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24							23.143	3	5.618 -1	5.172	1.00 39.82
ATOM 2166 O HOH 245 26.507 50.321 5.926 1.00 39.77 ATOM 2167 O HOH 246 24.886 49.944 8.651 1.00 37.76 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24								33	3.897	5.783	1.00 40.42
ATOM 2167 O HOH 246 24.886 49.944 8.651 1.00 35.74 ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2170 O1 EDO 1 48.324 27.636 18.334 1.00 32.24								27	7.579 -1		1.00 39.77
ATOM 2168 O HOH 247 33.171 50.567 6.460 1.00 35.10 ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2171 C2 EDO 1 48.324 27.636 18.334 1.00 32.24					246			49	9.944		1.00 35.74
ATOM 2169 C1 EDO 1 49.678 27.876 17.913 1.00 32.33 ATOM 2171 C2 EDO 1 48.324 27.636 18.334 1.00 32.24							33.171	50).567		1.00 37.76
ATOM 2171 C2 FD0 1 48.324 27.636 18.334 1.00 32.24						4	49.678	27	7.876 1°	7.913	1.00 32.33
=== + 42,009 /Y (()/ 6 / 1 // 45 Aa										3.334	1.00 32.24
33.08					• .	•	· · · · · · · · · · · · · · · · · · ·	29	1	, . pl /	1.00 33.08

ATOM	2172	2 02	EDO	1	49.776	29.707	16.203	1.00 33.95	
MOTA	2173	3 C1	EDO	2	. 35.821	26.057	-12.559	1.00 27.36	
ATOM	2174	01	EDO	2	35.083	24.825	-12.633	1.00 26.99	
ATOM	2175	5 C2	EDO	2	37.288	25.766	-12.507	1.00 27.04	
ATOM	. 2176	02	· EDC	2	37.823	25.421	-11.188	1.00 26.81	
ATOM	2177	C1	EDC		32.109	4.707	-1.196	1.00 32.05	
ATOM	2178			-	30.999	3.924	720	1.00 34.90	
MOTA	2179				32.483	5.724	166	1.00 30.33	
ATOM	2180				33.342	5.246	.915	1.00 32.01	
ATOM	2181				20.413	30.402	-8.539	1.00 38.13	
ATOM	2182		-	-	20.666	29.723	-7.292	1.00 38.27	
ATOM	2183			_	20.600	31.879	-8.368	1.00 38.37	
ATOM	2184		EDO		20.800	32.350	-6.995	1.00 38.66	
ATOM	2185		EDO	-	21.662	24.418	7.348	1.00 35.45	
ATOM	2186		EDO		23.030	24.437	7.797	1.00 36.25	
ATOM	2187		EDO		21.624	24.463	5.852	1.00 35.50	
ATOM	2188		EDO		21.767	25.789	5.249	1.00 36.44	
ATOM			MG2		43.852	18.841	2.109	1.00 27.78	
ATOM			CL1	1	24.304	20.875	1.803	1.00 17.97	
ATOM	2191	N	MSE		35.110	34.014	5.907	.44 10.21	AC2
ATOM	2192 2193	CA	MSE	158	34.354	34.920	5.054	.44 11.98	AC2
ATOM ATOM	2193	CB	MSE	158	35.299	35.639	4.091	.44 15.25	AC2
ATOM	2194	CG	MSE	158	34.663	36.759	3.292	.44 19.01	AC2
ATOM	2196	SE	MSE	158	35.246	38.493	3.909	.44 26.38	AC2
ATOM	2197	CE	MSE	158	37.144	38.257	3.682	.44 20.56	AC2
ATOM	2198	o	MSE MSE	158	33.395	34.019	4.277	.44 11.27	AC2
ATOM	2199	N	SER		33.821	33.037	3.669	.44 11.23	AC2
ATOM	2200	CA	SER	208	39.368	41.606	.024	.50 5.19	AC2
ATOM	2201	CB	SER	208 208	40.803	41.859	.059		AC2
ATOM	2202	OG	SER		41.287	42.307	-1.316	.50 6.77	AC2
ATOM	2203	C	SER	208	41.093 41.172	41.278	-2.266	.50 12.86	AC2
ATOM	2204	ō	SER	208	42.168	42.904 42.759	1.102	.50 5.34	AC2
ATOM	2205	N	ILE	220	34.627	31.400	1.808	.50 2.94	AC2
ATOM	2206	CA	ILE	220	33.627	30.506	1.641	.50 1.35	AC2
ATOM	2207	СВ	ILE	220	32.618	30.008	1.061 2.134	.50 1.35	AC2
ATOM	2208		ILE	220	31.422	29.326	1.458	.50 1.35	AC2
ATOM	2209		ILE	220	33.312	29.085	3.141	.50 1.35 .50 1.97	AC2
ATOM	2210		ILE	220	33.863	27.818	2.556		AC2
ATOM	2211	. с	ILE	220	32.807	31.257	.020	.50 8.09 .50 1.35	AC2
ATOM	2212	0	ILE	220	32.421	32.406	.246 .	.50 1.35	AC2
ATOM	2213	· N	MSE .	326	33.175	8.443	2.911	.39 17.50	AC2 AC2
ATOM	2214	CA	MSE	326	31.818	8.709	3.360	.39 17.68	AC2
ATOM	2215	CB	MSE	326	31.105	7.414	3.748	.39 21.36	AC2
ATOM	2216	CG	MSE	326	30.708	6.543	2.581	.39 24.62	AC2
ATOM	2217	SE	MSE	326	29.821	4.948	3.175	.39 34.10	AC2
ATOM	2218	CE	MSE	326	27.998 [.]	5.567	3.081	.39 30.04	AC2
ATOM	2219	С	MSE	326	31.873	9.621	4.568	.39 16.52	_
ATOM	2220	0	MSE	326	32.839	9.602	5.331	.39 17.10	AC2 AC2
ATOM	2221	CB	PRO	1519		50.412	. 520	.50 37.35	AC2
MOTA	2222	CG	PRO	1519		50.755	261	.50 38.95	AC2
MOTA	2223	С	PRO	1519		49.927	2.807	.50 36.73	AC2
MOTA	2224	0	PRO	1519	25.750	49.985	3.197	.50 37.75	AC2
MOTA	2225	N	PRO	1519		52.092	1.661	.50 38.05	AC2
MOTA	2226	CD	PRO	1519		52.159	.229	.50 38.46	AC2
MOTA	2227	CA	PRO	1519		50.997	1.887	.50 37.02	AC2
END									

FIGURE 2

Table 2 Crystallographic data on the BRC4-RAD51 complex.

Diffraction data (space group: P2₁2₁2₁: a=57.30Å, b=59.14Å, c=77.20Å)

Dataset	Resolution	Wavelength	Reflections ¹ (unique)	Completeness (outer shell)	R _{sym} ² (outer shell)	I/σ(I)	Beamline
Native	. 1.8Å	1.5418Å	169388 (24702)	99.9 (99.1)	0.051 (0.308)	40.9 (6.7)	In-house
KAu(CN) ₂	2.0Å	1.5418Å	179758 (18077)	100.0 (100.0)	0.059 (0.194)	36.6 (11.9)	In-house
SeMet, peak	1.7Å	0.9792Å	204230 (29143)	99.9 (99.9)	0.077 (0.321)	23.5 (6.5)	ESRF, ID- 29
SeMet; remote	1.7Å	0.90831Å	207259 (29329)	99.9 (99.6)	0.070 (0.481)	24.7 (4.2)	ESRF, ID- 29

Phasing

	KAu(CN)₂	SeMet, peak	SeMet, remote
Rcullis (iso/ano) ³	0.93 / 0.95	- , 0.70	0.84 / 0.84
Phasing power (iso/ano)⁴	0.72 / 0.74	- , 2.1	0.48 / 1.65
Figure of merit ⁵	0.21	0.	51

Refinement⁶

Resolution	Reflections	Number of	R ⁷	R _{free}		Rmsd bonds	Rmsd angles
(Å)		non-H atoms	(%)	(%)	(A ²)	(A)	(°)
24.8-1.7	55746	2179	19.1	20.6	21.1	0.006	1.229

¹ For MAD data, the Bijvoet pairs were not merged.

⁷ R-factor =
$$\sum_{hkl} ||F_{obs}| - |F_{calc}|| / \sum_{hkl} |F_{obs}|$$

² R_{sym} = $\sum_{hkl} \sum_{i} |I_{i}(hkl) - \langle I_{i}(hkl) \rangle| / \sum_{hkl} \sum_{i} I_{i}(hkl)$

³ R_{cuttis} as defined in SHARP.

⁴ Phasing power as defined in SHARP.

⁵ Figure of merit as defined in SHARP.

⁶ Statistics for all data.

FIGURE 3

Table 3 Structure-based analysis of BRCA2 BRC sequence conservation.

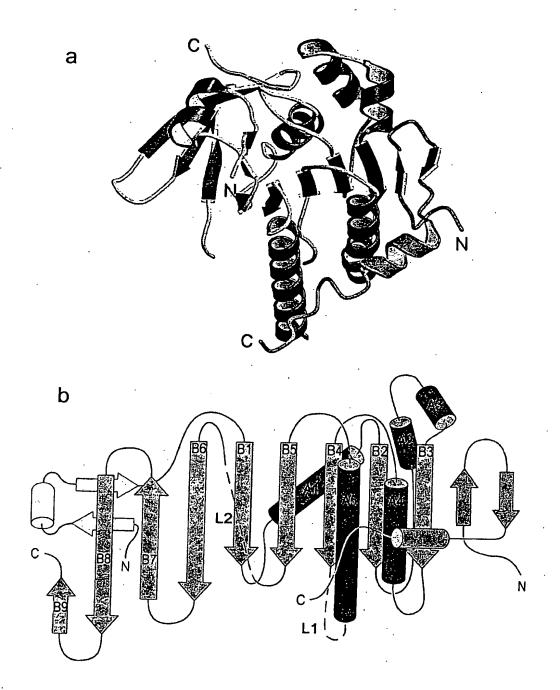
				β	β	β	_			β	β	β	_	•		α	α	α	α	α	α	α						٠
	L	L	G	F	Н	T	Α	S	G	K	K	٧	K	1	Α	ĸ	Ε	S	L	D	K.	٧	K	N	L	F	D	E
D	2				1		2	3		1						8	1			6	2	2		1	2	1	8	17
Ε	1	1					1		1	1	9		2			21	22			3	4	1	· 1	4			7	28
Κ	1		1		1			1		39	20		12	1		10	2		1	8	44		27	12	2	1	9	1
R	İ	4		1	8			1	1	5	2		4	2	1 -	2				4	1		11	1	1		6	1
Н					6			6	1							3	4			5		1						
N	3	1	1					1	7		7	1	4			2	1	6		5	1	2	1	11			5	
Q		1		1	8	1		•		3	5		7			5	1			8				8			1	4
S	3	7	12		17	7	2	33	8		3		13		39	2	13	28		4	2	11		3			14	
T	l	2	2		2	45	1	1	1	5		8	5		5	2	3	3		3	2				1		3	1
G	5	15	21				2	4	37	1					2		1					3	1	6				
Α	6		7			1	46				5				4		8	15	٠	3		19	1	1			1	
P	5	4					1	_			1		1										_					1
С	3			2	3			2				1	5		-	_			_	1			2					1
1		4	5		3	1					2	16		12				2	8			3			6	2		1
L	8	16				1		3			2	6		7	1			1	38	3			1		17	17		
V	2	1	4				1	1		1		23	2	33		1			4	1		14	7		7		2	1
М															4								4	7	6			
F	14		3	50								1	1	1				1	4	2				1	8	35		
W																									6			
Y	3		•	2	7														1					1				

Consensus:

G F x T A S G K o i x i S o o S L x K A K x i F o D S S S S A V R a L E S

PCT/GBZUU3/UU4403

FIGURE 4



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BEST AVAILABLE COFY

PCT/GB2003/004485

FIGURE 5

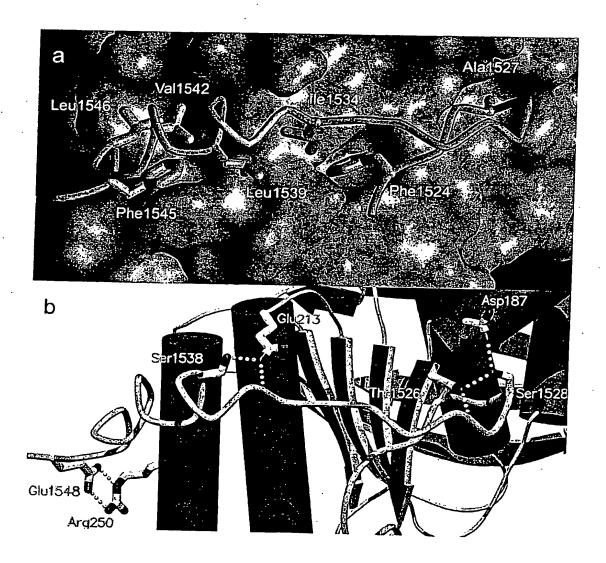
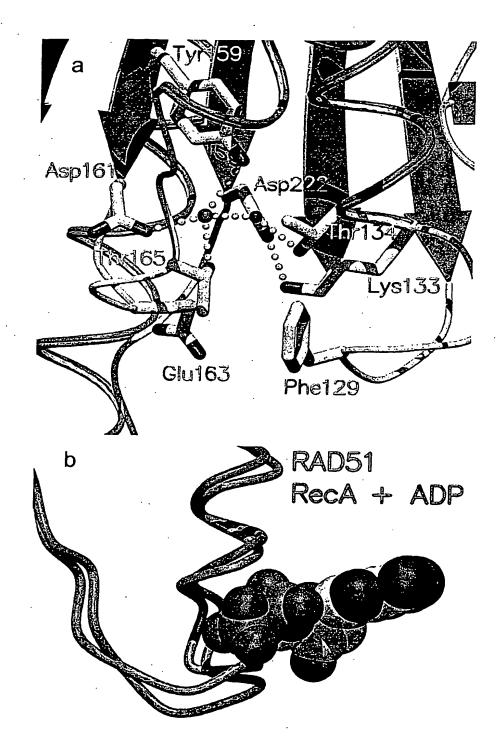


FIGURE 6



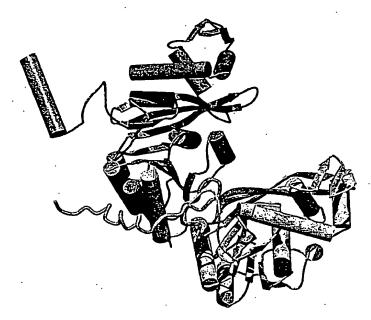
Venkitaraman_fig3

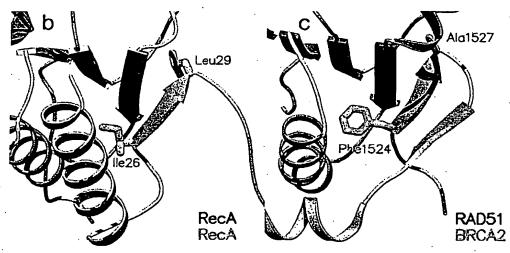
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BEST AVAILABLE COFY

FIGURE 7

а

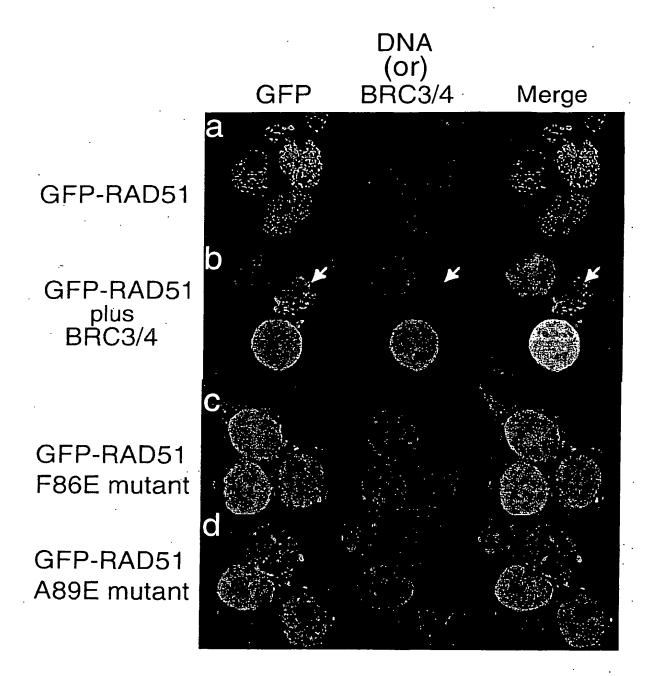




d

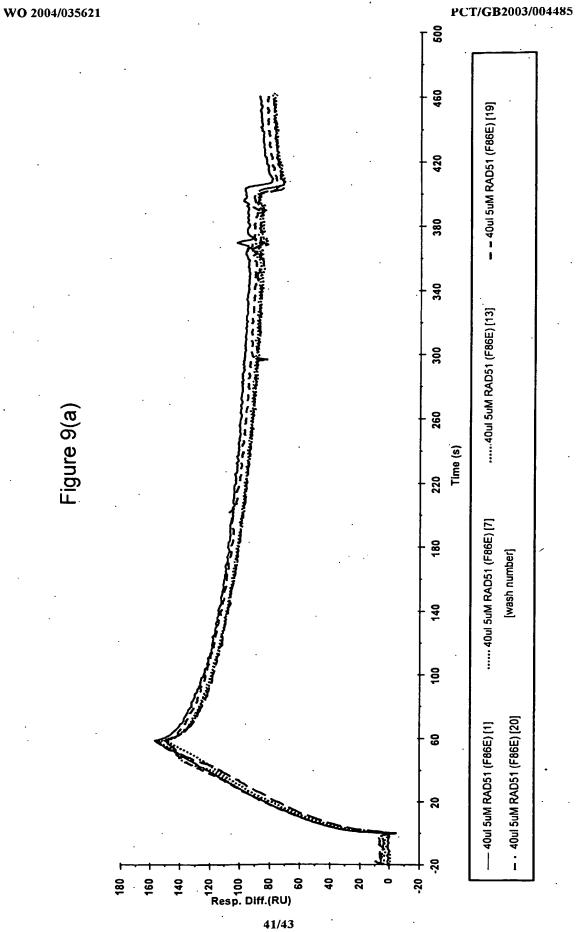
				-			-		
RAD51	Н.	sapiens	85-G	F	\mathbf{T}	T	Ā	T	E-91
**	С.	griseus	85-G	F	Т	T	Α	Т	E-91
71	Х.	laevis	82-G						***
**	D.	melanogaster	82-G						
		cerevisiae	, 143-G	F	v	T	. A	Α	D-149
DMC1	н.	sapiens							
		furiosus							E-102
RecA.	E.	coli	25-S						
BRCA2	BRO	C4 H. sapiens	1523-G						

FIGURE 8



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JERO REC'T PETROTO I LAPA BUY



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160 140 120 6

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